THE ENCYCLOPÆDIA BRITANNICA



FOURTEENTH EDITION

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THE ENCYCLOPÆDIA BRITANNICA

FOURTEENTH EDITION

A NEW SURVEY OF UNIVERSAL KNOWLEDGE

VOLUME
24
ATLAS, INDEX,
LIST OF CONTRIBUTORS



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THE
ENCYCLOPÆDIA BRITANNICA
FOURTEENTH EDITION

VOLUME 24

ATLAS, INDEX, LIST OF CONTRIBUTORS

This volume of the Encyclopædia Britannica contains:

A complete Atlas of the World;

An Index to the preceding twenty-three volumes and to the maps in this volume;

A list of contributors to this Edition of the *Encyclopædia Britannica*, together with the articles contributed by them.

I. ATLAS

IN THIS EDITION of the *Encyclopædia Britannica* all the political and geographical maps of the different continents, countries, States, provinces, etc., of the world are brought together in this volume instead of being scattered through the separate volumes. This is an innovation in this Edition and indeed as regards encyclopaedias generally, but one that will, we believe, appeal to all users of the volumes. Probably the chief use of maps is to show the position of a State or city or some geographical feature; and it is certainly to the great advantage of the inquirer to have all maps brought together in the volume with the Index, where all names are arranged alphabetically. Moreover, the reader of an article on any one country, say the United States, may wish to have the map of that country open before him as much when he reads page 100 as when he reads page 1.

In addition to the political and geographical maps in the volume covering each continent, country and important State or province, such as have appeared in earlier editions of the *Encyclopædia Britannica*, there are others which show in colours the physical features, as the height of the land, the depth of the seas. The map of South America, for example, pages 190 and 191, will give the reader a graphic representation of the physical features of that continent; Switzerland, page 186, will show the traveller the dominant characteristics which make that country so interesting. A number of other physical maps of equal interest will be noted.

In addition to the political and physical maps included in this volume, there are many historical maps, as those of Ancient Greece and Rome, charts of the campaigns of Napoleon, the

American Civil War, the World War, and diagrams of individual battles scattered through the preceding volumes. These naturally accompany the articles they illustrate.

The maps have been especially prepared, engraved and printed for this Edition by John Bartholomew and Sons Ltd. of Edinburgh and display the beauty, accuracy and good judgment that have made the name of Bartholomew so favourably known everywhere. Needless to say, the maps are up-to-date in every respect and form a complete Atlas of the world. The names on all the maps are included in the Index, and the latter therefore supplies a complete gazetteer of the whole world.

II. THE INDEX

Following the Atlas is the Index. A full account of how it was made, and the purposes it fills, will be found in the pages preceding the Index itself. Nothing further need be said here except that the total number of references reaches almost half a million and renders instantly available all the information in the preceding twenty-three volumes of text, the maps and all the illustrations.

III. LIST OF CONTRIBUTORS

At the end of this volume is given a complete alphabetical list of the contributors of all signed articles in the 14th Edition, together with the initials that identify each writer. It includes also the headings of the principal articles written by the different contributors. This list supplements the special lists prefaced to the several volumes where biographical information about the contributors is given.

The list speaks for itself and for the work to which the writers have contributed. It contains over 3,000 names of scholars, experts and men of affairs from all countries of the world, each an authority in his field. It is confidently believed that no other single work has ever appeared with a list of equal weight and distinction.

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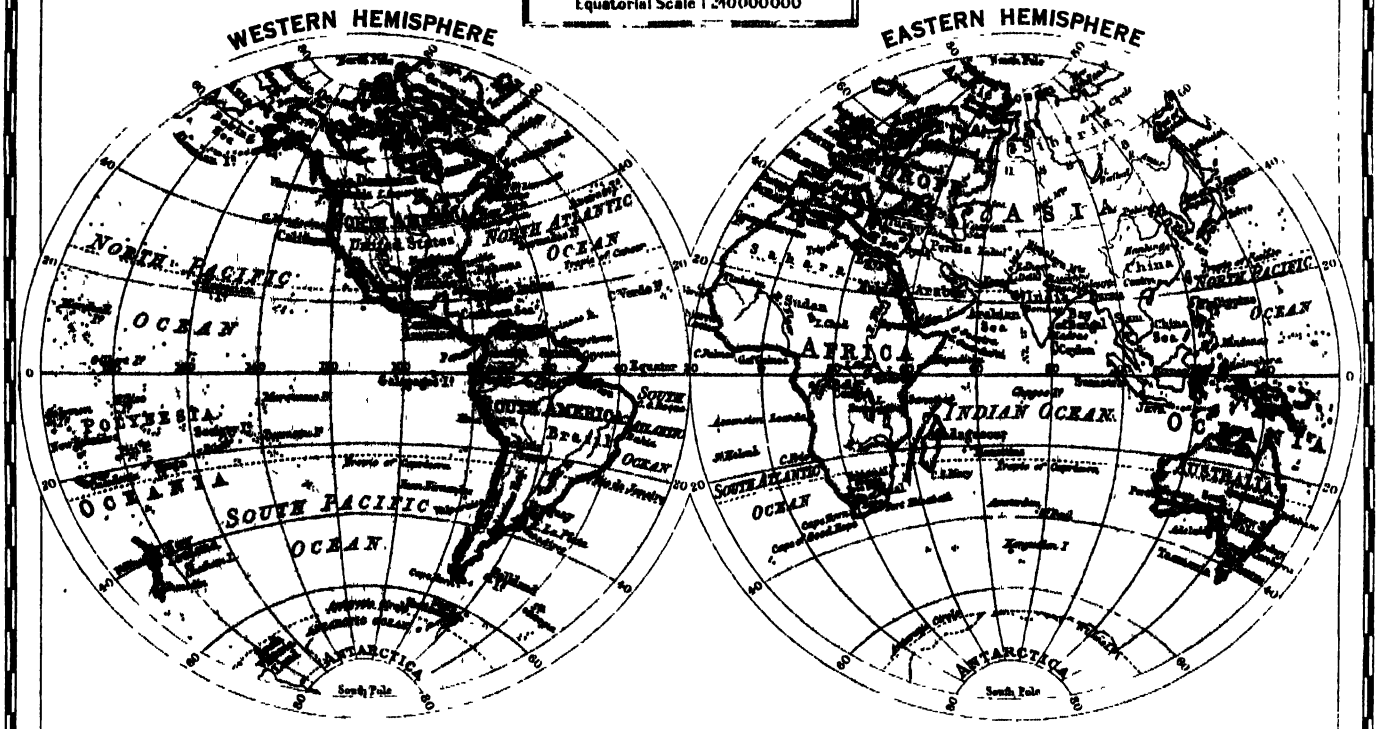
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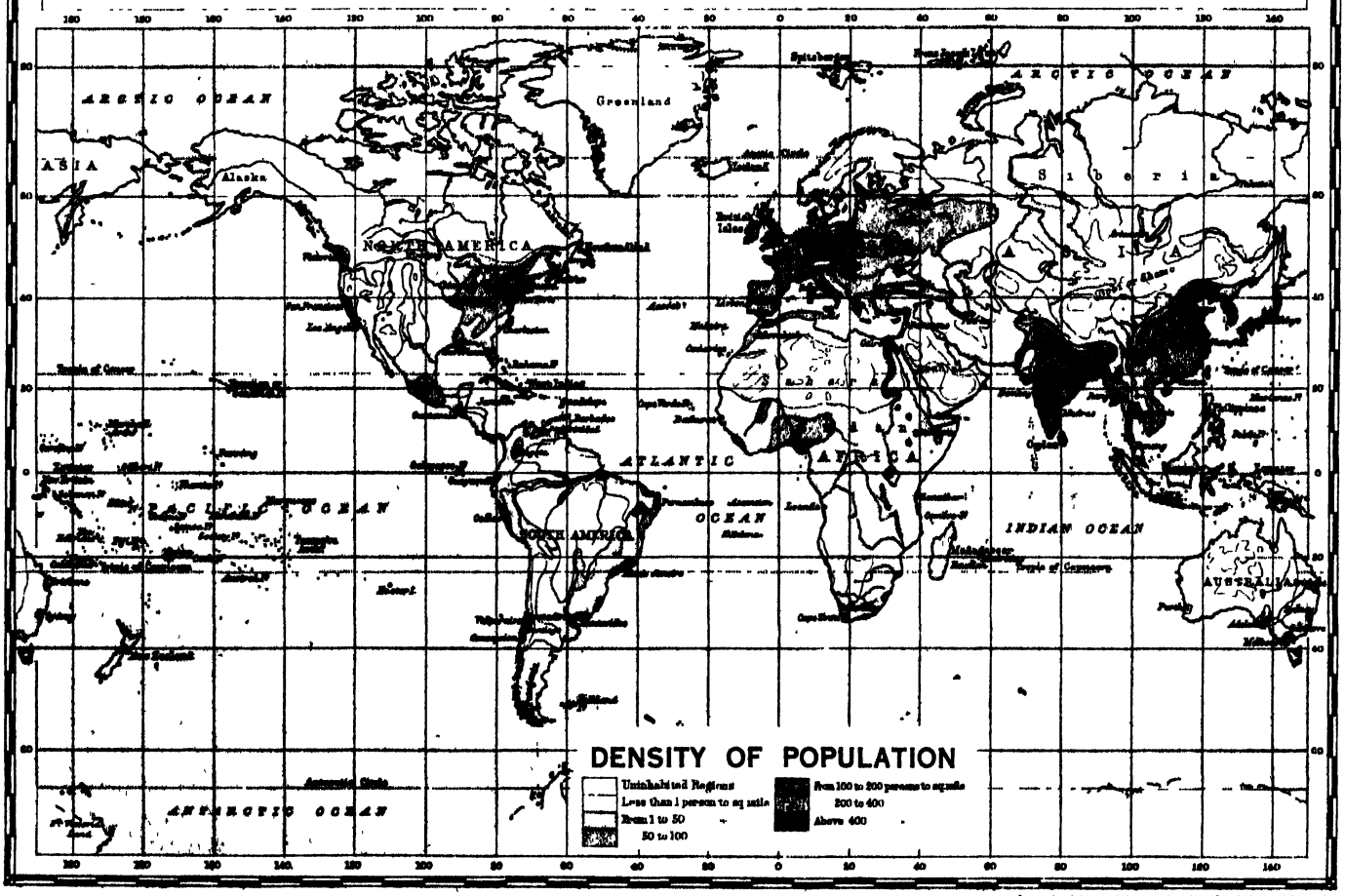
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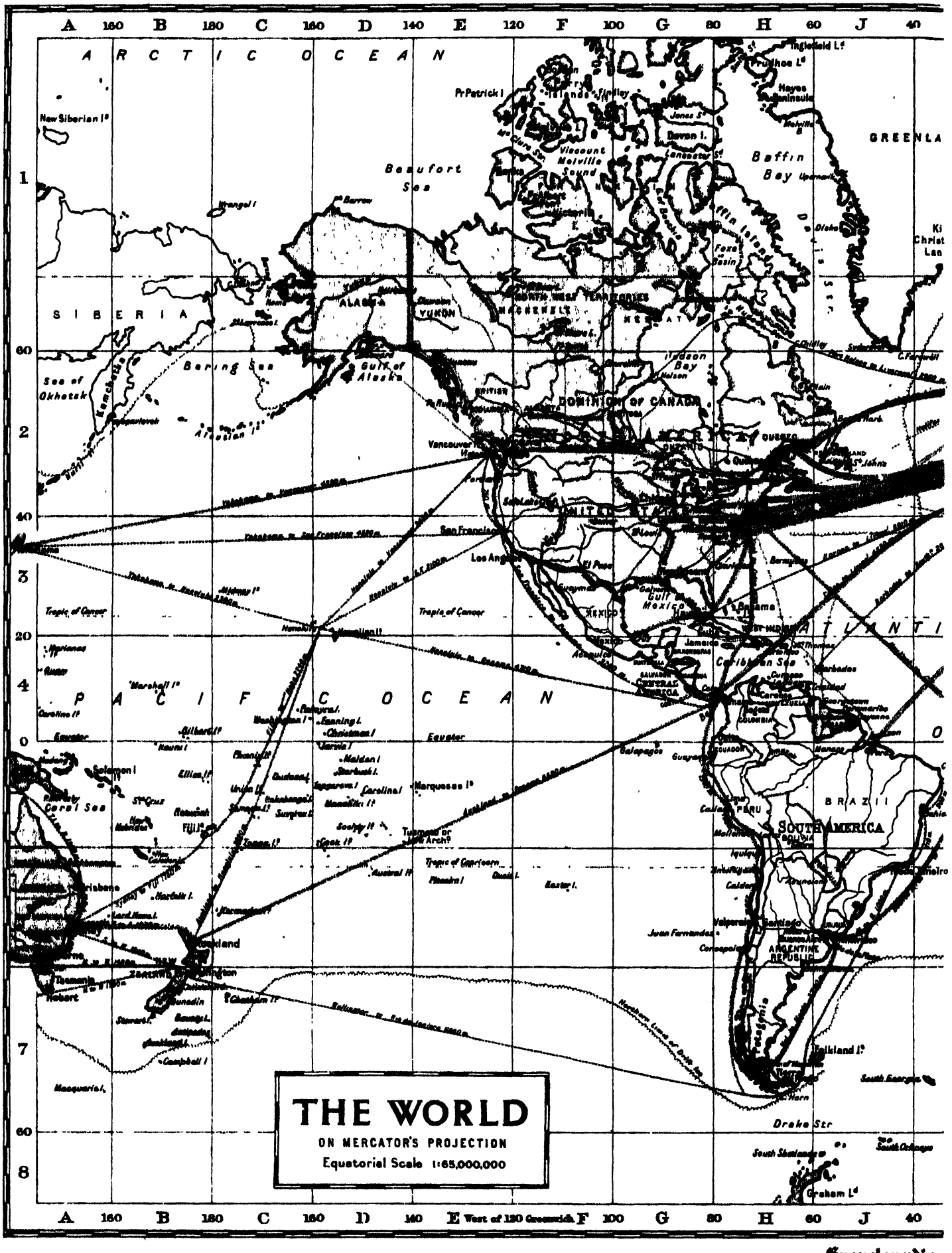
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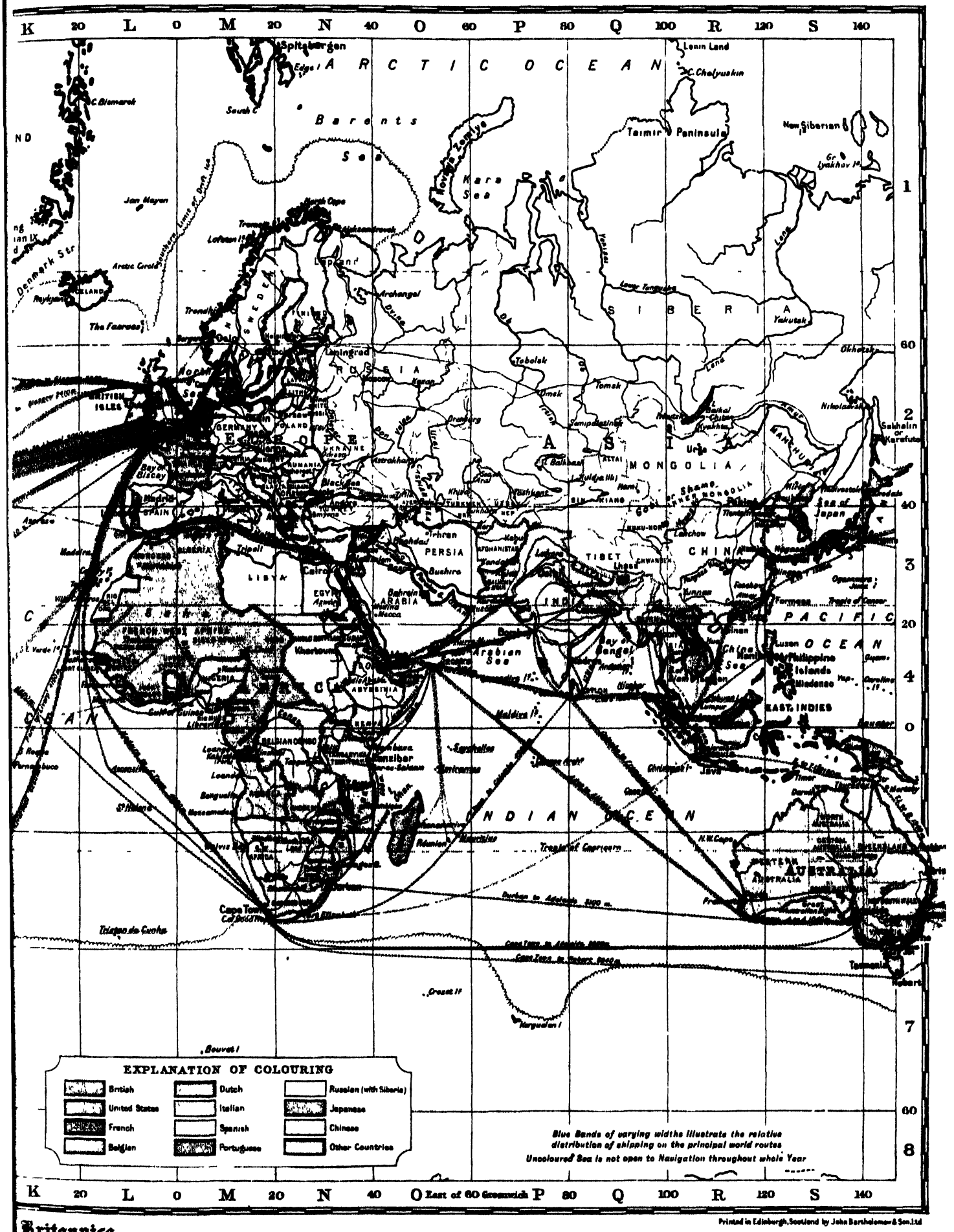


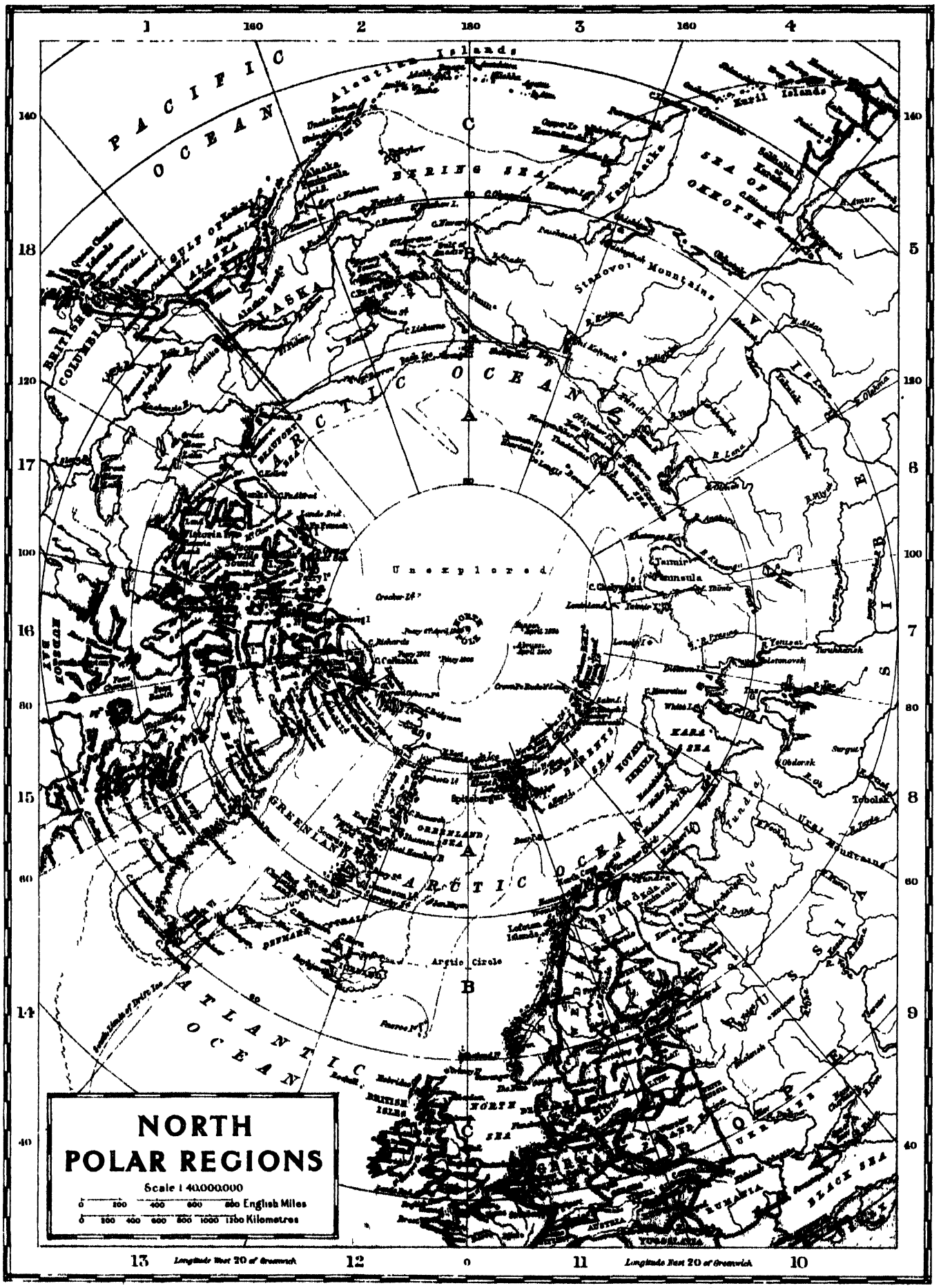


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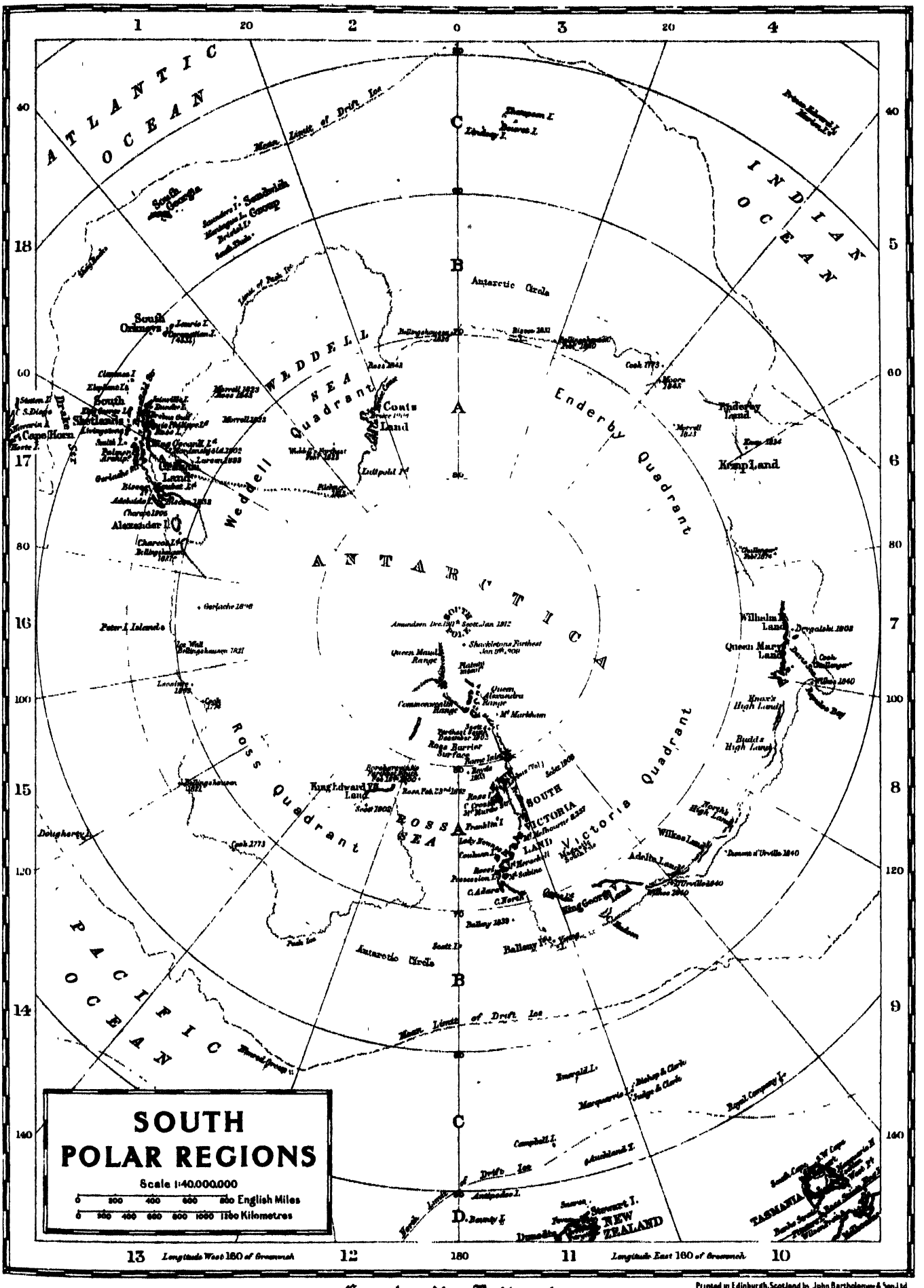

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Lake Baikal
Chita
Khabarovsk
Nikolaevsk
Sakhalin or Karafuto
Urga
Ulan Bator
Kiakhta
Hami
Turfan
Kuldja
Peking



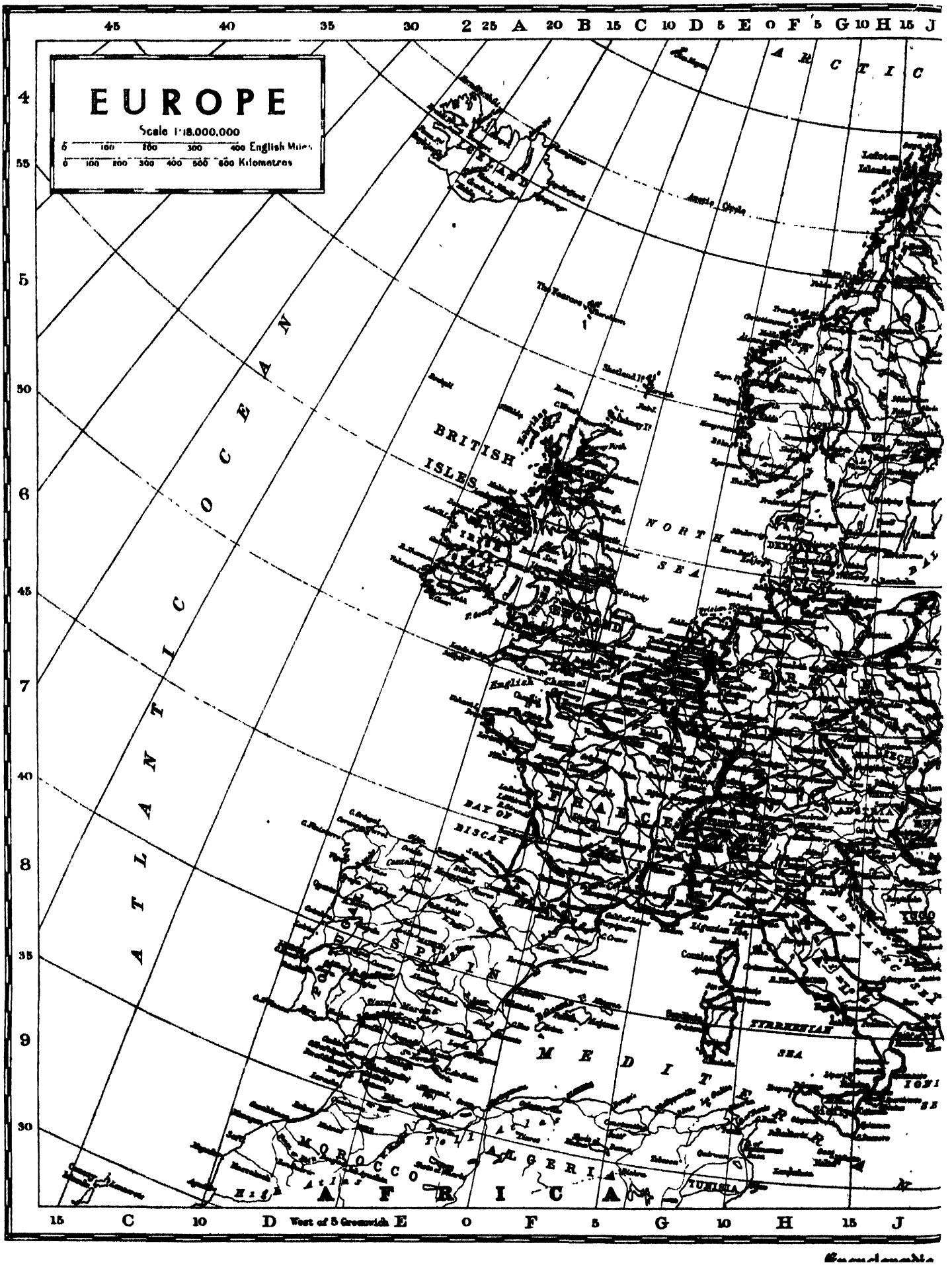
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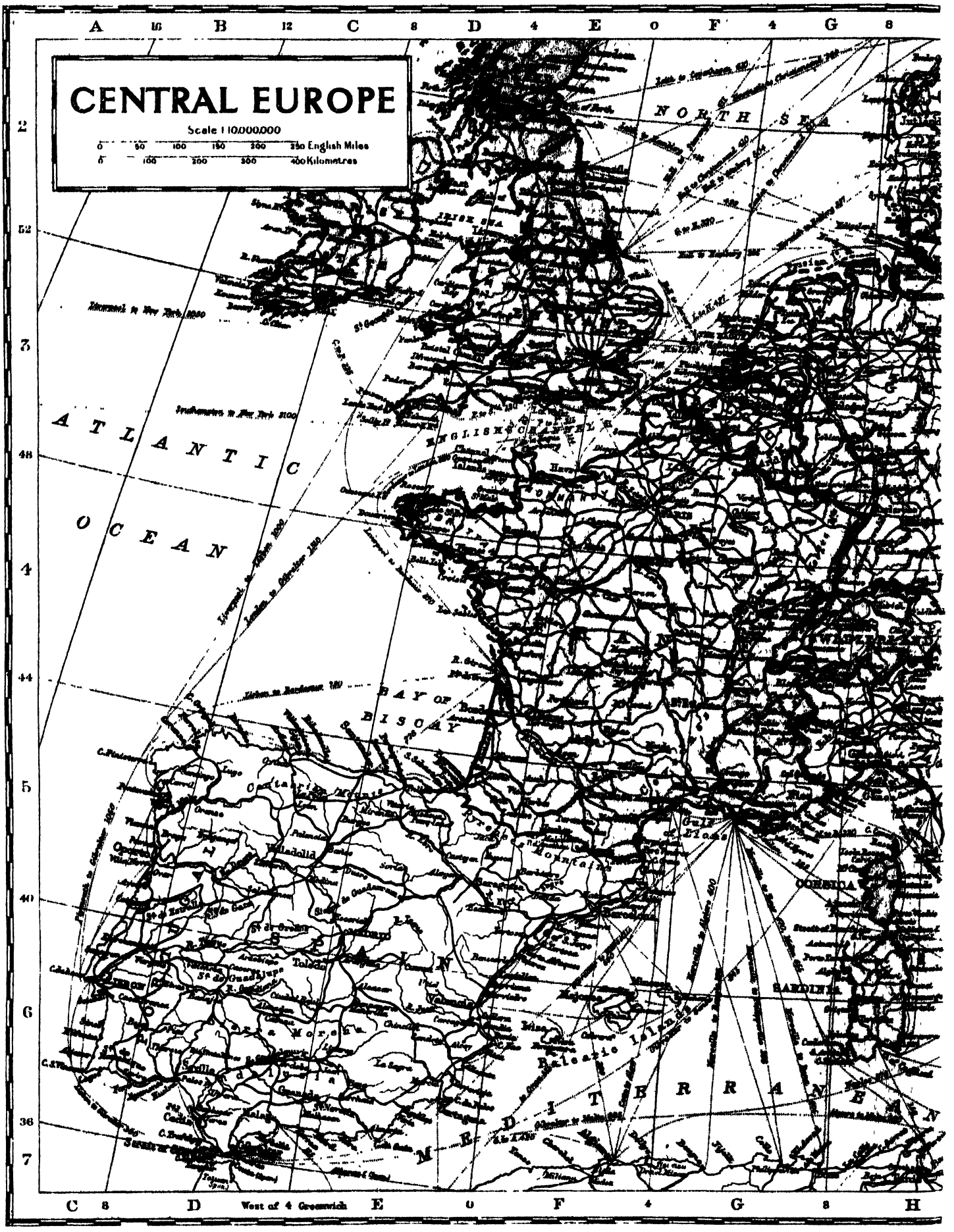
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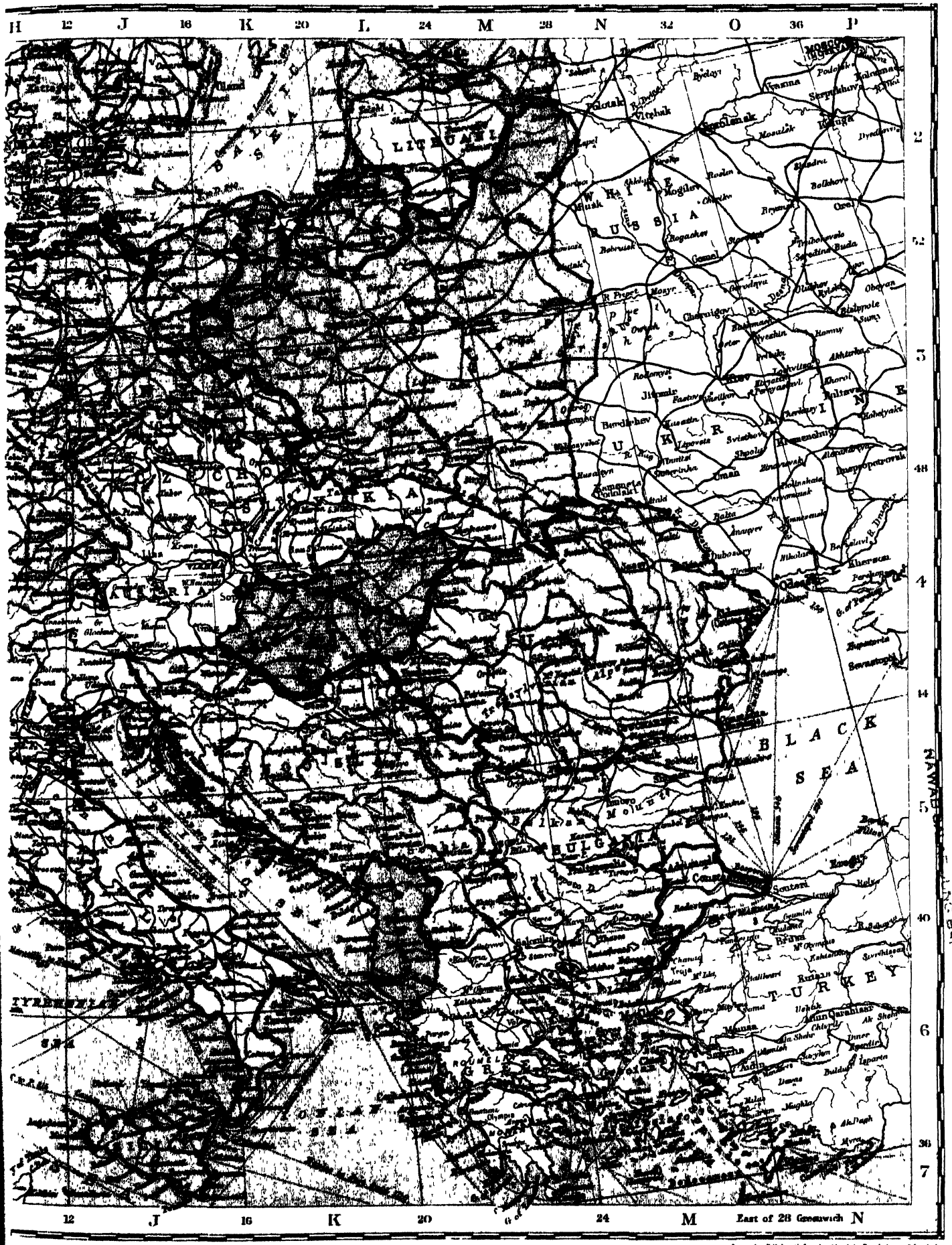
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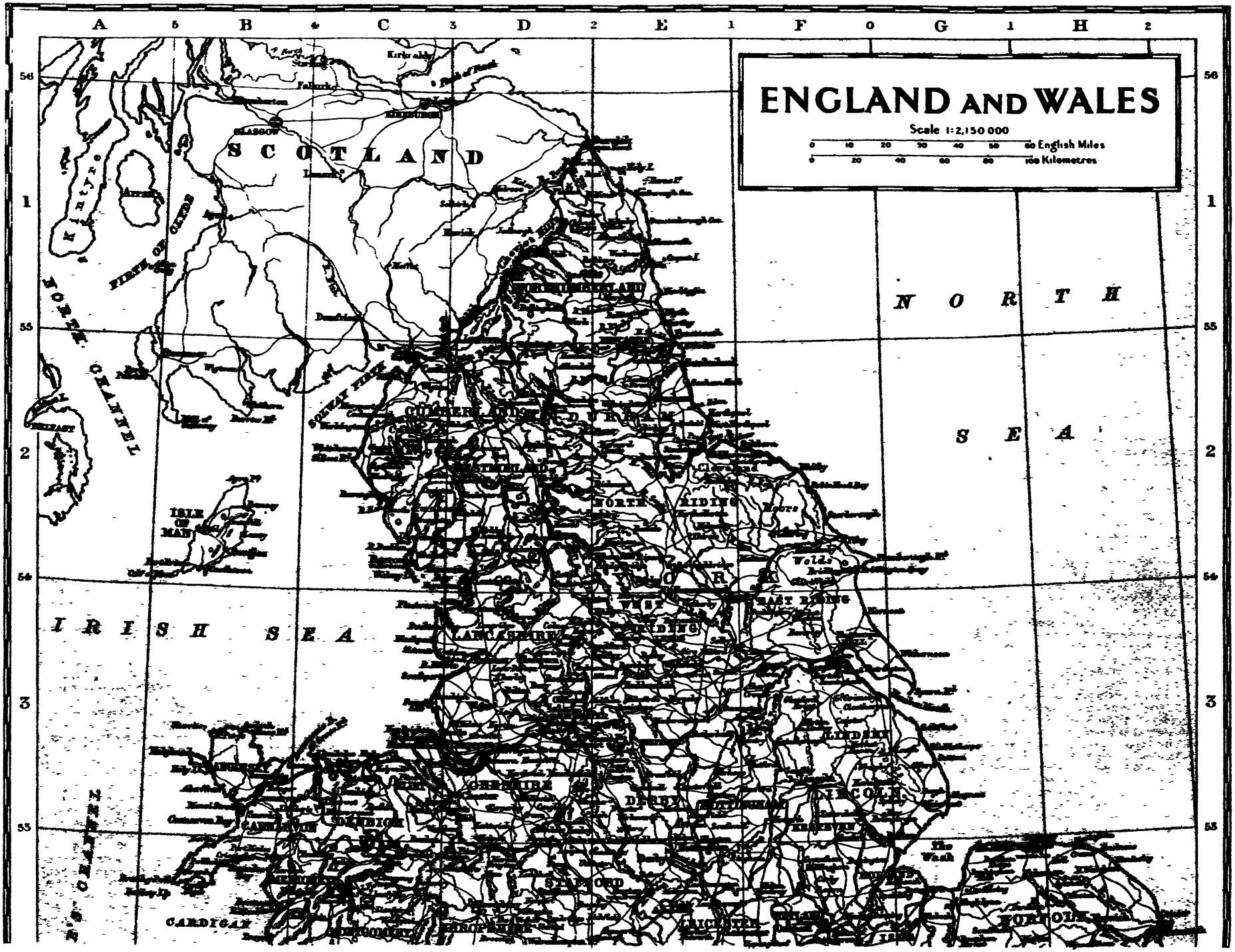

EUROPE
Scale 1:18,000,000
0 100 200 300 400 English Miles
0 100 200 300 400 500 600 Kilometres
ARCTIC
ATLANTIC OCEAN
BRITISH ISLES
NORTH SEA
ENGLISH CHANNEL
BAY OF BISCAY
SPAIN
FRANCE
MEDITERRANEAN SEA
MOROCCO
ALGERIA
TUNISIA
AFRICA
45 40 35 30 25 A 20 B 15 C 10 D 5 E 0 F 5 G 10 H 15 J
4 55 5 50 6 45 7 40 8 35 9 30
15 C 10 D West of Greenwich E 0 F 5 G 10 H 15 J

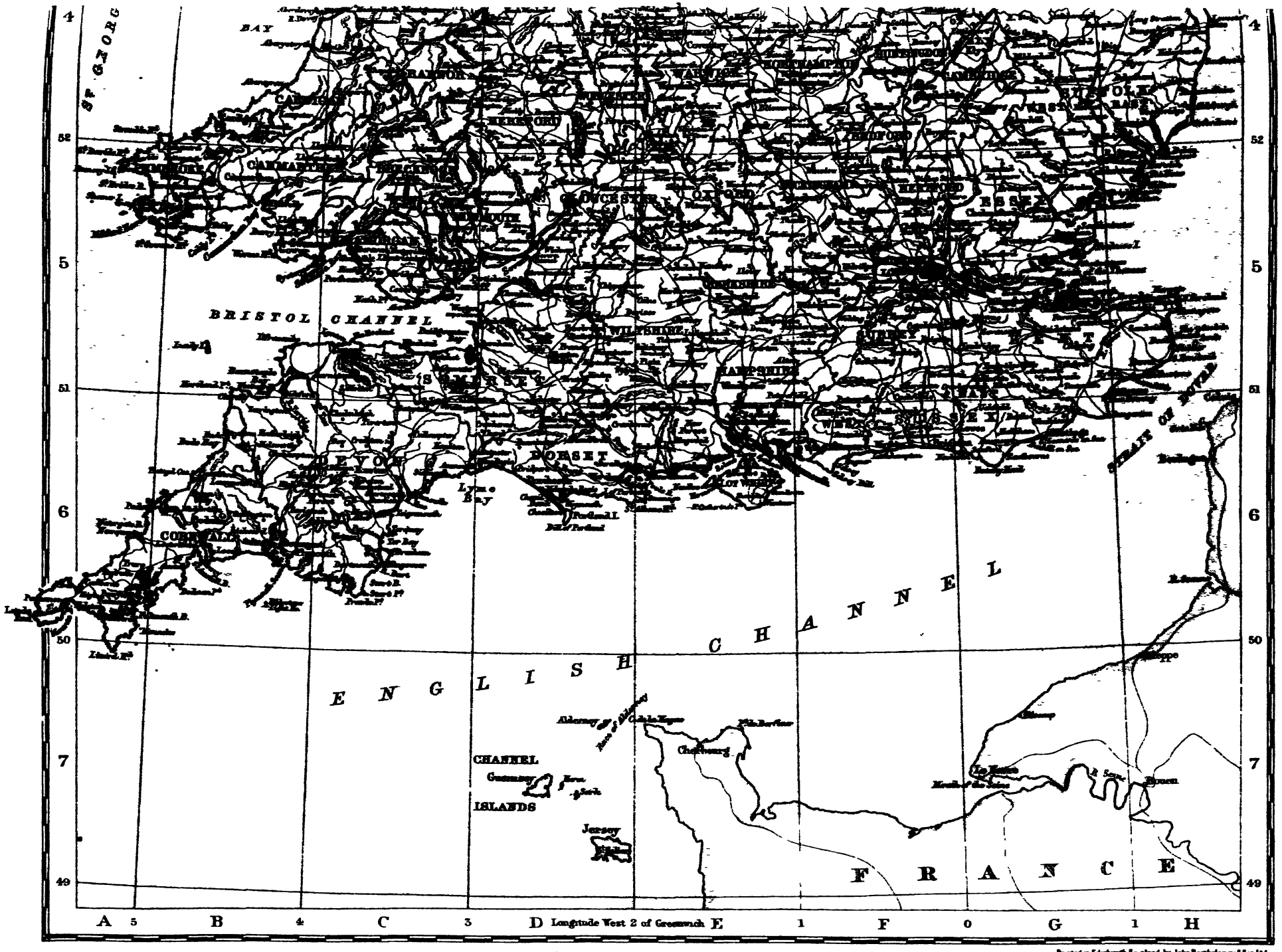


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CENTRAL EUROPE
Scale 1:10,000,000
0 50 100 150 200 250 English Miles
0 100 200 300 400 Kilometres
NORTH SEA
ATLANTIC OCEAN
BAY OF BISCAY
MEDITERRANEAN
Balearic Islands
CORSICA
SARDINIA
Gulf of Lions
A 16 B 12 C 8 D 4 E 0 F 4 G 8
C 8 D West of 4 Greenwich E 0 F 4 G 8 H
2 52 3 48 4 44 5 40 6 36 7

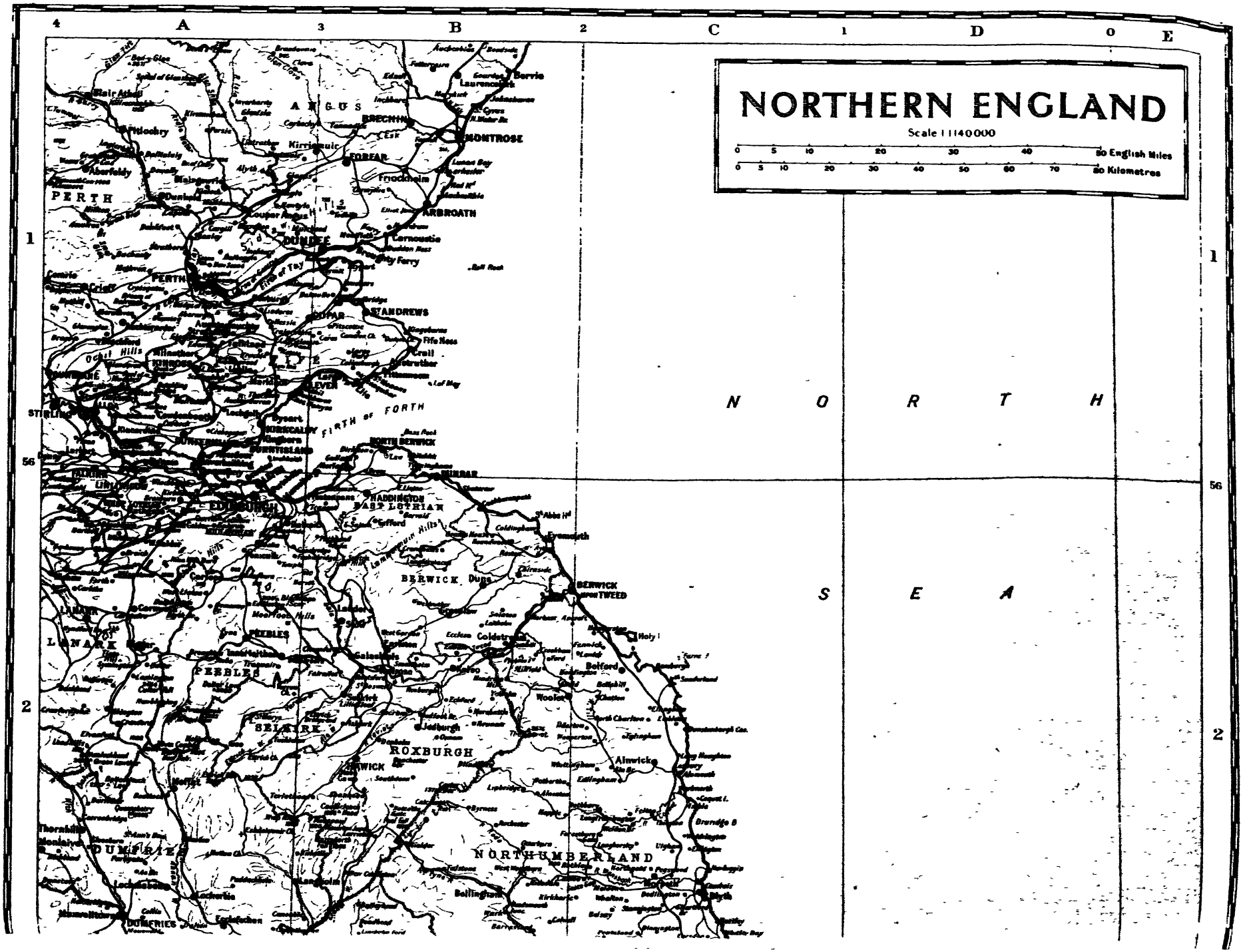

H 12 J 16 K 20 L 24 M 28 N 32 O 36 P
LITHUANIA
WHITE RUSSIA
Smolensk
Mogilev
Orel
Bryansk
Gomel
Chernigov
Poltava
Kharkov
Kursk
Belgorod
Sumy
Lokhvitsa
Konotop
Bakhmach
Nezhin
Romny
Priluki
Lubny
Poltava
Kremenchug
Pereyaslav
Kiev
Zhitomir
Berdichev
Uman
Shpola
Svisthovka
Kremenchug
Alexandrovsk
Ekaterinoslav
Pavlograd
Nikolayev
Odessa
Kherson
Perekop
Sevastopol
Yalta
Simferopol
Feodosia
Kerch
Taganrog
Mariupol
Berdyansk
Melitopol
Genichesk
Alexandrovsk
Aleksandrovsk
Ekaterinoslav
Dnepropetrovsk
Zaporozhye
Nikopol
Kherson
Odessa
Tiraspol
Balta
Ananyev
Dubossary
Bendery
Kishinev
Orgeyev
Soroki
Bielitz
Lemberg
Halicz
Stanislau
Kolomea
Czernowitz
Kimpolung
Suczawa
Jassy
Botushany
Dorohoi
Hotin
Mohilev
Yampol
Zhmerinka
Vinnitsa
Proskurov
Kamenets Podolsk
Volochisk
Tarnopol
Brody
Dubno
Rovno
Lutsk
Kovel
Brest
Pinsk
Baranovichi
Slutsk
Minsk
Bobruisk
Rogachev
Mozyr
Rechitsa
Kalinkovichi
Zhlobin
Orsha
Mogilev
Vitebsk
Smolensk
Roslavl
Yelnya
Yartsevo
Dorogobuzh
Vyazma
Gzhatsk
Mozhaisk
Volokolamsk
Klin
Moscow
Bryansk
Tula
Kaluga
Serpukhov
Podolsk
Kolomna
Ryazan
Skopin
Shatsk
Penza
Tambov
Kozlov
Morshansk
Kirsanov
Balashov
Saratov
Kamyshin
Tsaritsyn
Astrakhan
Guryev
Uralsk
Orenburg
Chelyabinsk
Troitsk
Petropavlovsk
Omsk
Tobolsk
Tyumen
Ekaterinburg
Perm
Kungur
Ufa
Sterlitamak
Buguruslan
Samara
Syzran
Kuibyshev
Stavropol
Buzuluk
Orsk
Aktyubinsk
Kustanai
Turgai
Irgiz
Kazalinsk
Fort Perovsk
Kara Bogaz Gol
Krasnovodsk
Chikishlyar
Ashkhabad
Merv
Tashauz
Khiva
Bokhara
Samarkand
Tashkent
Chimkent
Aulie Ata
Pishpek
Semipalatinsk
Barnaul
Biysk
Kolyvan
Tomsk
Kainsk
Kolpashevo
Narym
Obdorsk
Berezov
Tobolsk
Ishim
Petropavlovsk
Atbasar
Akmolinsk
Karkaralinsk
Pavlodar
Omsk
Kokchetav
Kustanai
Turgai
Irgiz
Aktyubinsk
Orsk
Buzuluk
Orenburg
Sterlitamak
Ufa
Buguruslan
Samara
Syzran
Kuibyshev
Stavropol
Saratov
Kamyshin
Tsaritsyn
Astrakhan
Guryev
Uralsk

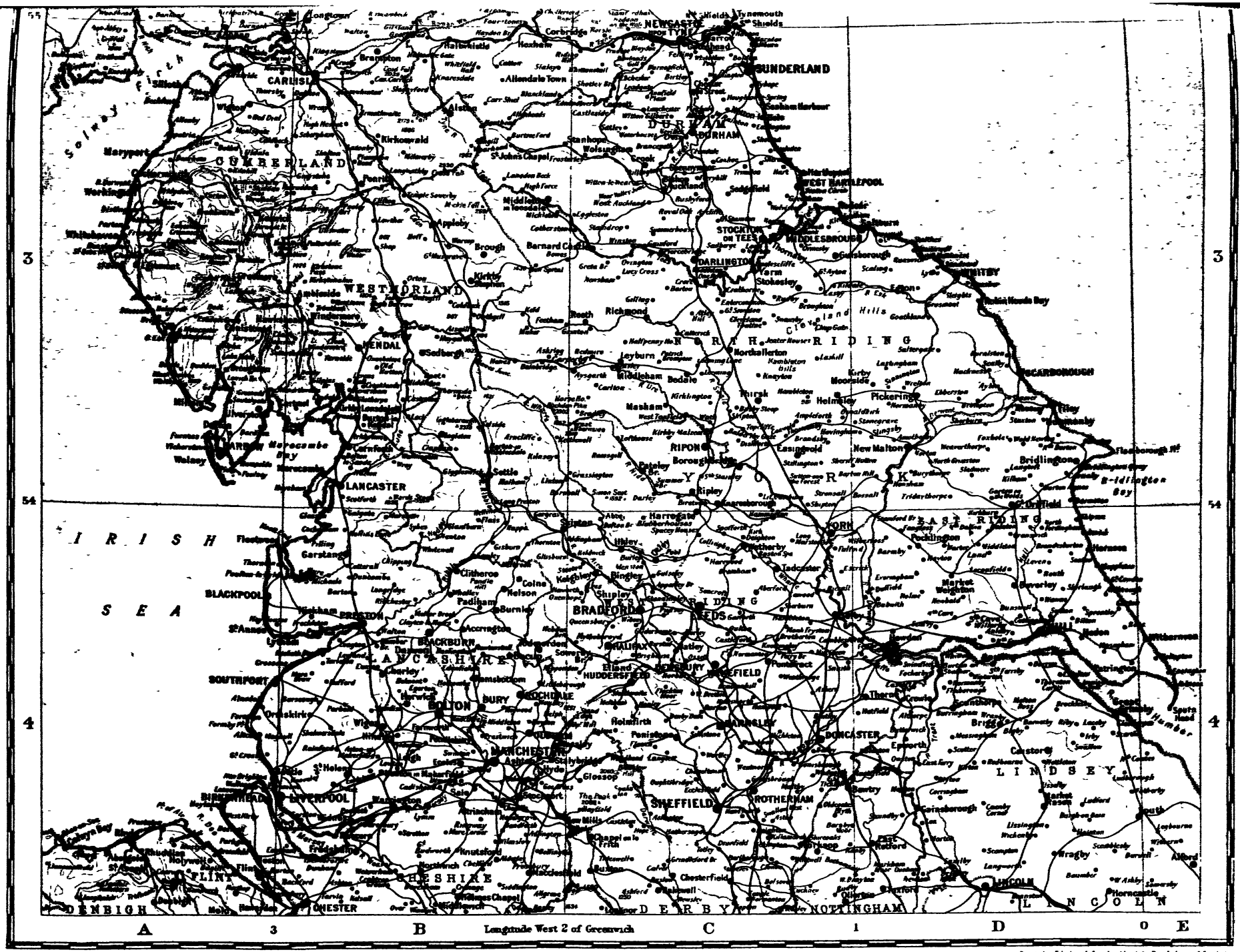

ENGLAND AND WALES
Scale 1:2,150 000
0 10 20 30 40 50 60 English Miles
0 20 40 60 80 100 Kilometres
A 5 B 4 C 3 D 2 E 1 F 0 G 1 H 2
56
55
54
53
1
2
3
SCOTLAND
GLASGOW
NORTH SEA
IRISH SEA
NORTH CHANNEL
ST GEORGE'S CHANNEL
FIRTH OF CLYDE
SOLWAY FIRTH
ISLE OF MAN
NORTHUMBERLAND
CUMBERLAND
DURHAM
NORTH RIDING
YORK
EAST RIDING
WEST RIDING
LANCASHIRE
CHESHIRE
DERBY
LINCOLN
LINDSEY
CARNARVON
DENBIGH
CARDIGAN
MONTGOMERY
STAFFORD
LEICESTER
NORFOLK
The Wash
Wolds
Moors



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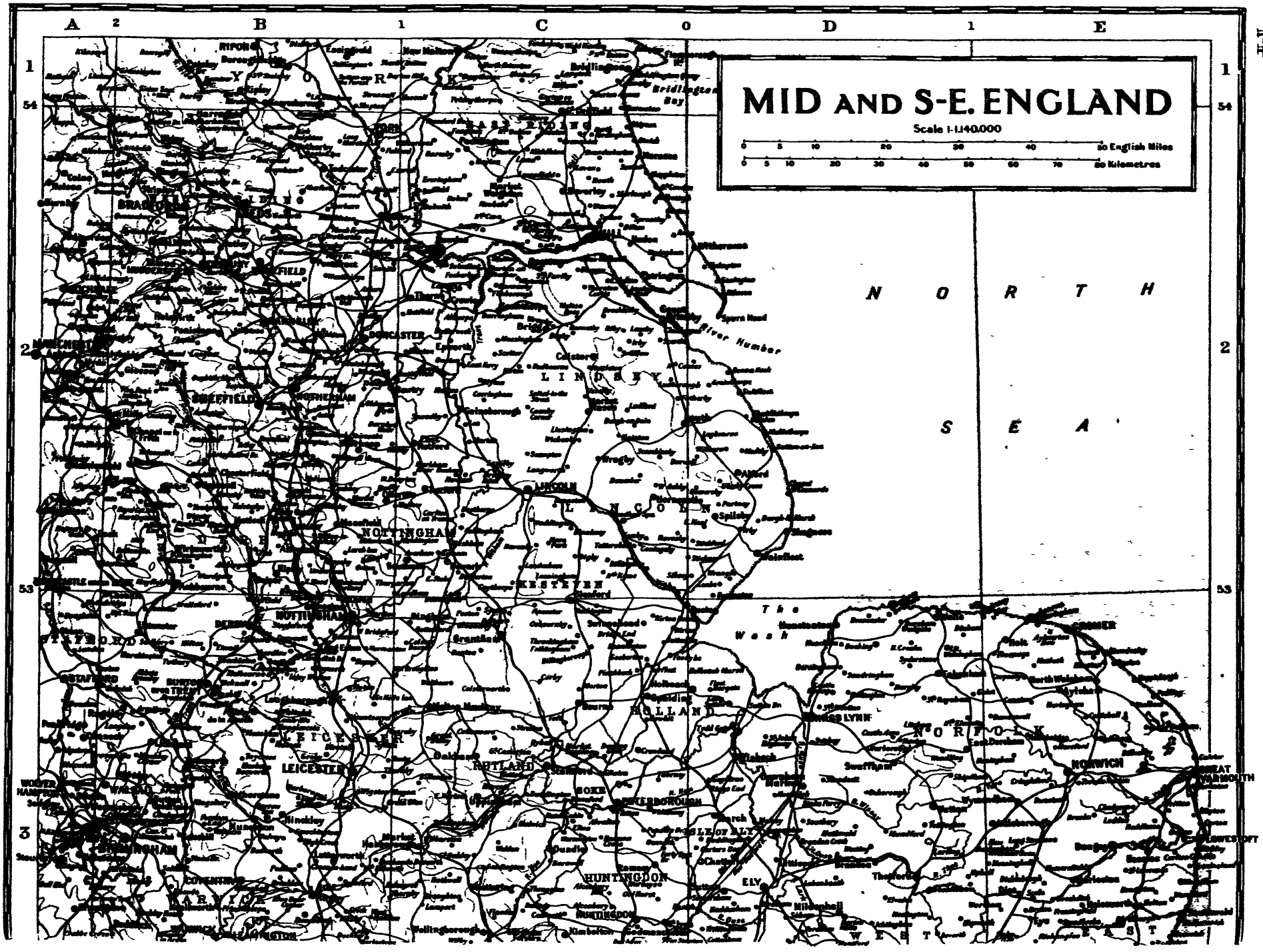
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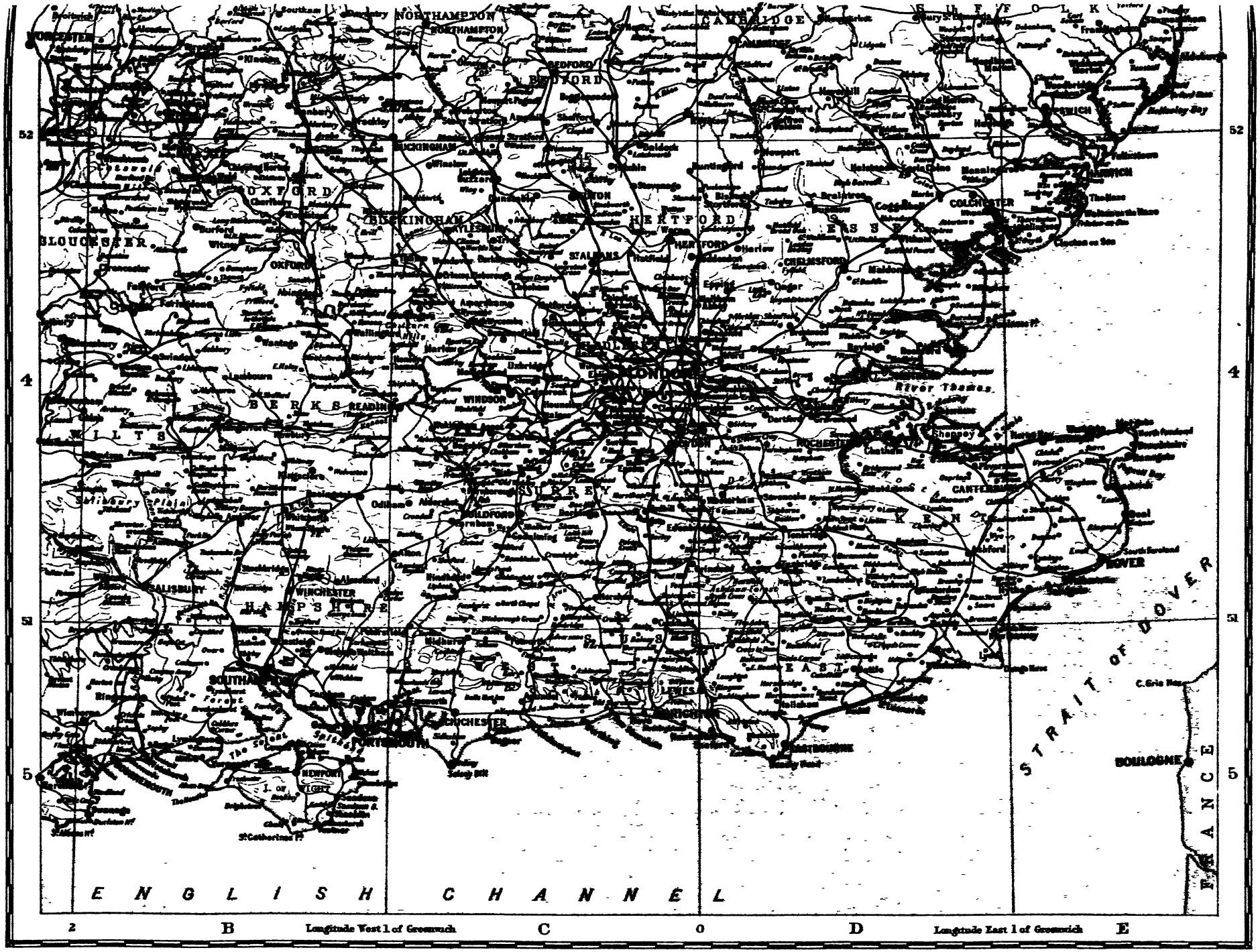

NORTHERN ENGLAND
Scale 1:1140000
0 5 10 20 30 40 50 English Miles
0 5 10 20 30 40 50 60 70 80 Kilometres
NORTH SEA
4 A 3 B 2 C 1 D 0 E
1
56
2
ANGUS
BRECHIN
MONTROSE
FORFAR
Kirriemuir
Friockheim
ARBROATH
PERTH
DUNDEE
Carnoustie
Tay Ferry
Firth of Tay
Crieff
Perth
ST ANDREWS
Fife Ness
Crail
Ochil Hills
KINROSS
Lochleven
Loch Leven
STIRLING
Dysart
KIRKCALDY
FIRTH of FORTH
DUNFERMLINE
NORTH BERWICK
HADDINGTON
EAST LOTHIAN
EDINBURGH
Lammermuir Hills
BERWICK Duns
BERWICK upon TWEED
Eyemouth
Holy I
Belford
Coldstream
Ecclefechan
LANARK
PEEBLES
Innerleithen
Galashiels
Selkirk
Jedburgh
ROXBURGH
KELSO
Wooler
Alnwick
Cheviot
Brizzle Fell
DUMFRIES
Lockerbie
Langholm
Thornhill
Moniaive
NORTHUMBERLAND
Bellingham
Rothbury
Morpeth
Blyth
Ashington
Whitley Bay



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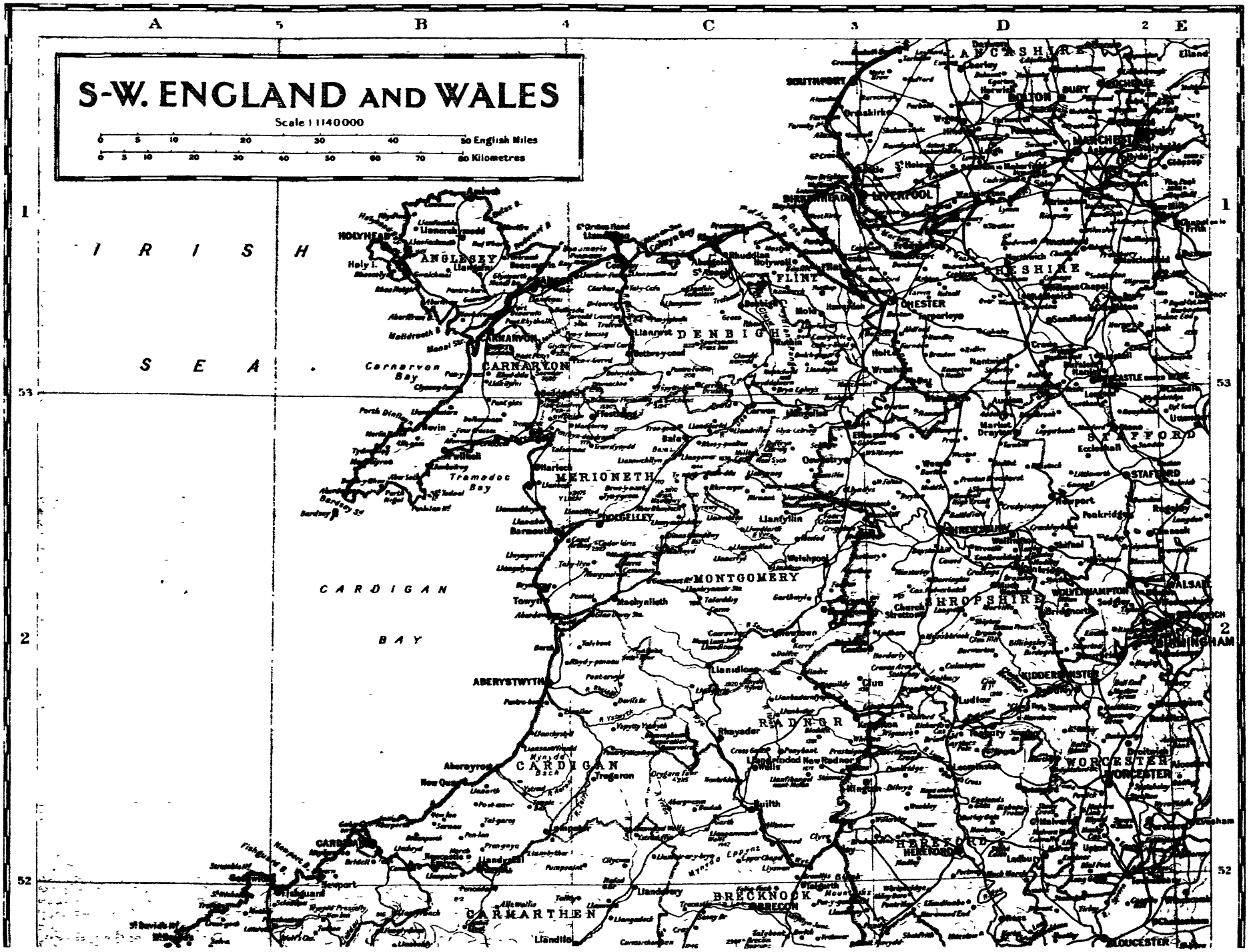
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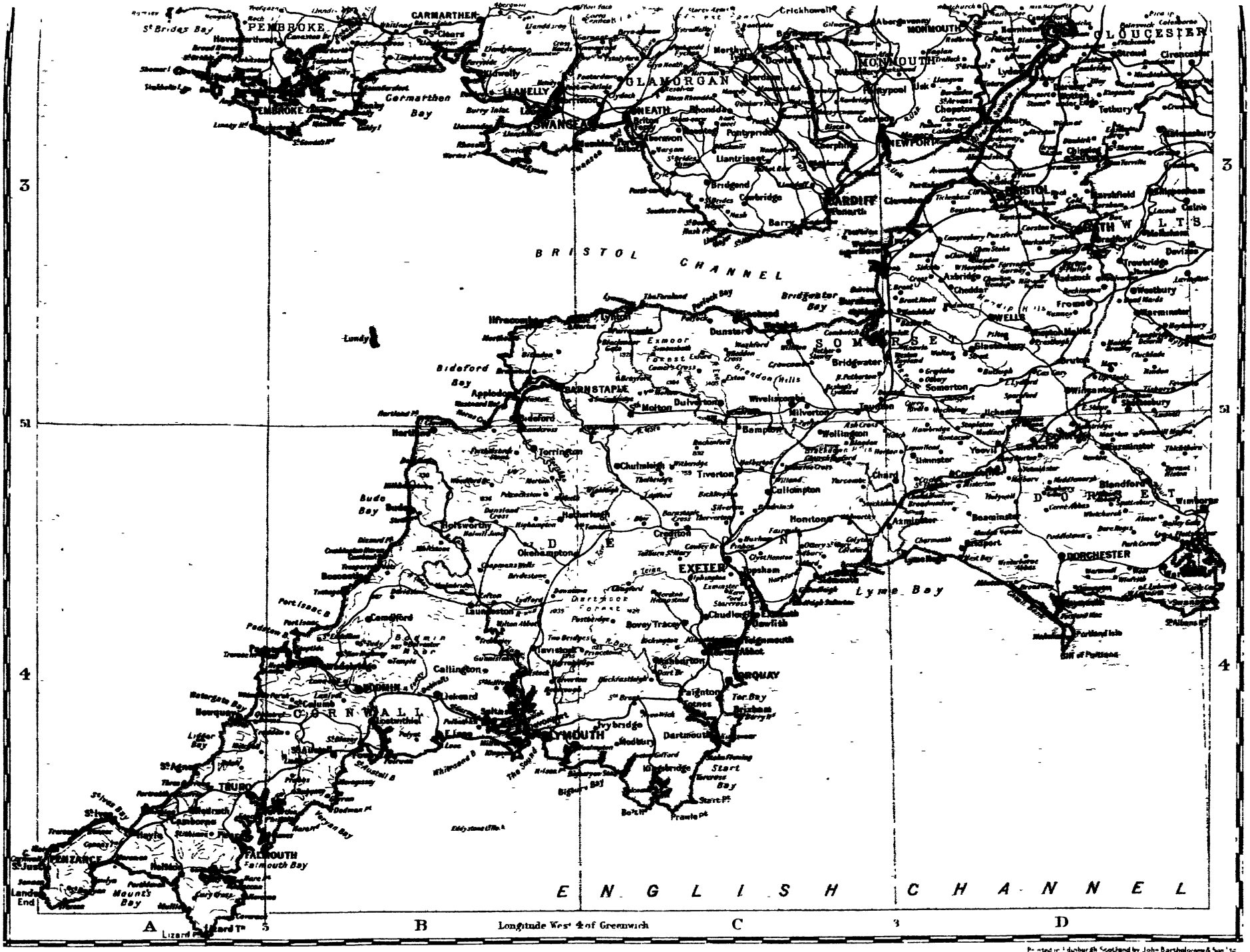

MID AND S-E. ENGLAND
Scale 1-1,140,000
50 English Miles
80 Kilometres
NORTH SEA
River Humber
The Wash
A 2 B 1 C 0 D 1 E
1
2
3
53
54
YORK
LINCOLN
NOTTINGHAM
LEICESTER
RUTLAND
HOLLAND
NORFOLK
NORWICH
ELY
HUNTINGDON
BOSTON
SHEFFIELD
MANCHESTER
BIRMINGHAM
COVENTRY
KING'S LYNN
GREAT YARMOUTH
LOWESTOFT



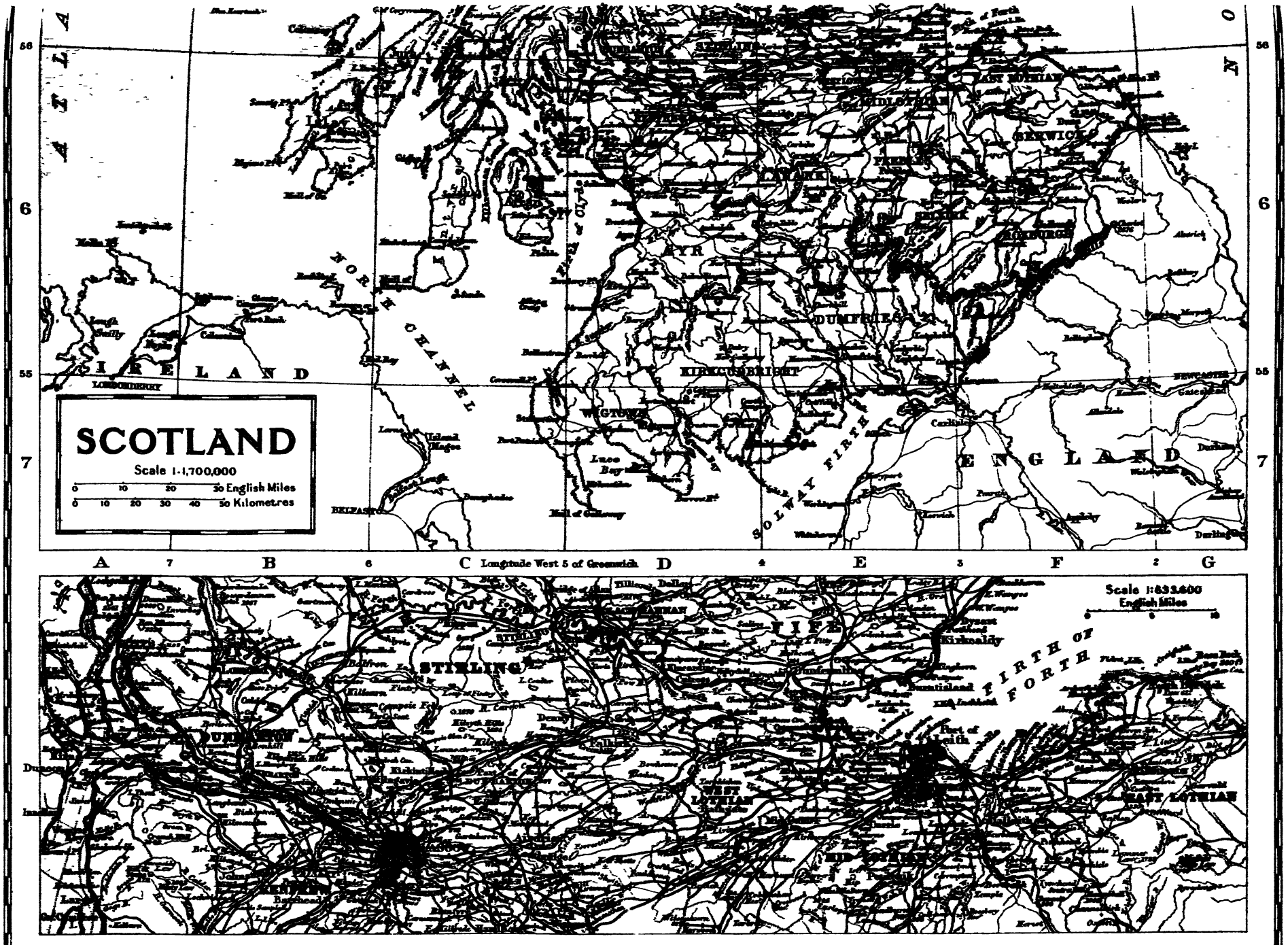
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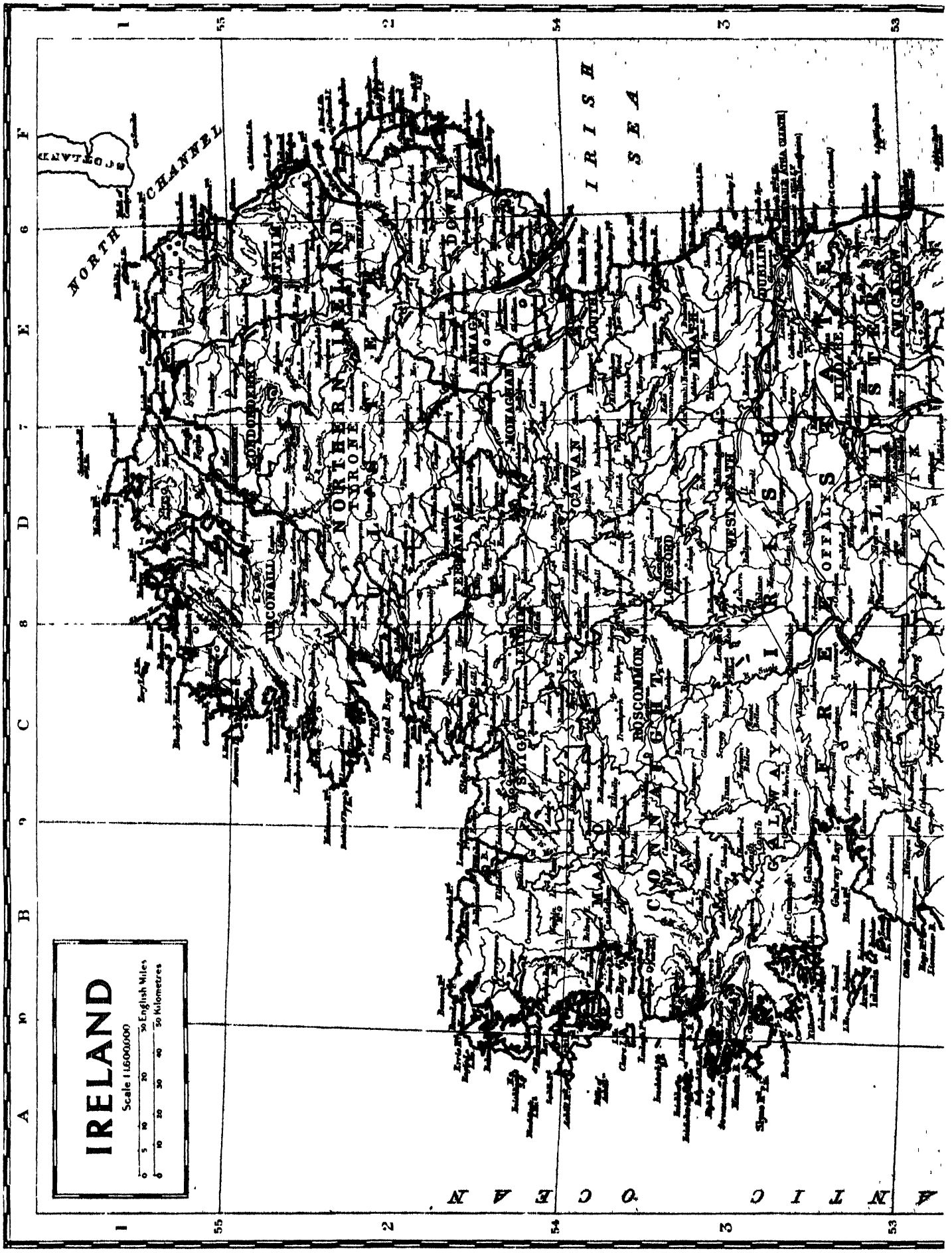

S-W. ENGLAND AND WALES
Scale 1:1140000
50 English Miles
80 Kilometres
A
B
C
D
E
1
2
3
4
5
52
53
I R I S H
S E A
CARDIGAN
BAY
Cardigan Bay
Tremadoc Bay
ANGLESEY
CARNARVON
DENBIGH
FLINT
MERIONETH
MONTGOMERY
RADNOR
CARDIGAN
CARMARTHEN
BRECKNOCK
HEREFORD
WORCESTER
SALOP
STAFFORD
CHESTER
LANCASHIRE
LIVERPOOL
MANCHESTER
BIRMINGHAM
HOLYHEAD
ABERYSTWYTH
Aberayron
Newport
Fishguard
St Davids
Llandilo
Llandovery
Brecon
Builth
Rhayader
Llandrindod
Llanidloes
Welshpool
Machynlleth
Tywyn
Barmouth
Dolgelley
Bala
Corwen
Ruthin
Wrexham
Holt
Mold
Denbigh
Llanrwst
Conway
Bangor
Carnarvon
Pwllheli
Nevin
Llanberis
Llanfairfechan
Beaumaris
Amlwch
Llangefni
Holy I.
Rhyl
Prestatyn
Abergele
Colwyn Bay
Llandudno
Southport
Bolton
Bury
Eland
Oswestry
Shrewsbury
Wellington
Newport
Stafford
Eccleshall
Market Drayton
Whitchurch
Ellesmere
Llangollen
Llanfyllin
Llanidloes
Llandinam
Church Stretton
Ludlow
Kidderminster
Worcester
Hereford
Leominster
Tenbury
Bridgnorth
Wolverhampton
Walsall
Birmingham
Gloucester
Cheltenham
Evesham
Pershore
Droitwich
Tamworth
Lichfield
Burton
Derby
Ashbourne
Buxton
Macclesfield
Stockport
Manchester
Liverpool
Birkenhead
Chester
Flint
Mostyn
Holywell
Prestatyn
Rhyl
Abergele
Colwyn Bay
Llandudno
Conway
Bangor
Carnarvon
Pwllheli
Nevin
Llanberis
Llanfairfechan
Beaumaris
Amlwch
Llangefni
Holy I.
Holyhead
Aberdaron
Abersoch
Barmouth
Dolgelley
Bala
Corwen
Ruthin
Wrexham
Holt
Mold
Denbigh
Llanrwst
Llangollen
Oswestry
Shrewsbury
Wellington
Newport
Stafford
Eccleshall
Market Drayton
Whitchurch
Ellesmere
Llanfyllin
Llanidloes
Llandinam
Welshpool
Machynlleth
Tywyn
Aberystwyth
Aberayron
Cardigan
Newcastle Emlyn
Carmarthen
Llandilo
Llandovery
Brecon
Builth
Rhayader
Llandrindod
Llandiloes
Church Stretton
Ludlow
Kidderminster
Worcester
Hereford
Leominster
Tenbury
Bridgnorth
Wolverhampton
Walsall
Birmingham
Gloucester
Cheltenham
Evesham
Pershore
Droitwich
Tamworth
Lichfield
Burton
Derby
Ashbourne
Buxton
Macclesfield
Stockport
Manchester
Liverpool
Birkenhead
Chester
Flint
Mostyn
Holywell
Southport
Bolton
Bury
Eland
Oswestry
Shrewsbury
Wellington
Newport
Stafford
Eccleshall
Market Drayton
Whitchurch
Ellesmere
Llangollen
Llanfyllin
Llanidloes
Llandinam
Welshpool
Machynlleth
Tywyn
Aberystwyth
Aberayron
Cardigan
Newcastle Emlyn
Carmarthen
Llandilo
Llandovery
Brecon
Builth
Rhayader
Llandrindod
Llandiloes
Church Stretton
Ludlow
Kidderminster
Worcester
Hereford
Leominster
Tenbury
Bridgnorth
Wolverhampton
Walsall
Birmingham
Gloucester
Cheltenham
Evesham
Pershore
Droitwich
Tamworth
Lichfield
Burton
Derby
Ashbourne
Buxton
Macclesfield
Stockport
Manchester
Liverpool
Birkenhead
Chester
Flint
Mostyn
Holywell

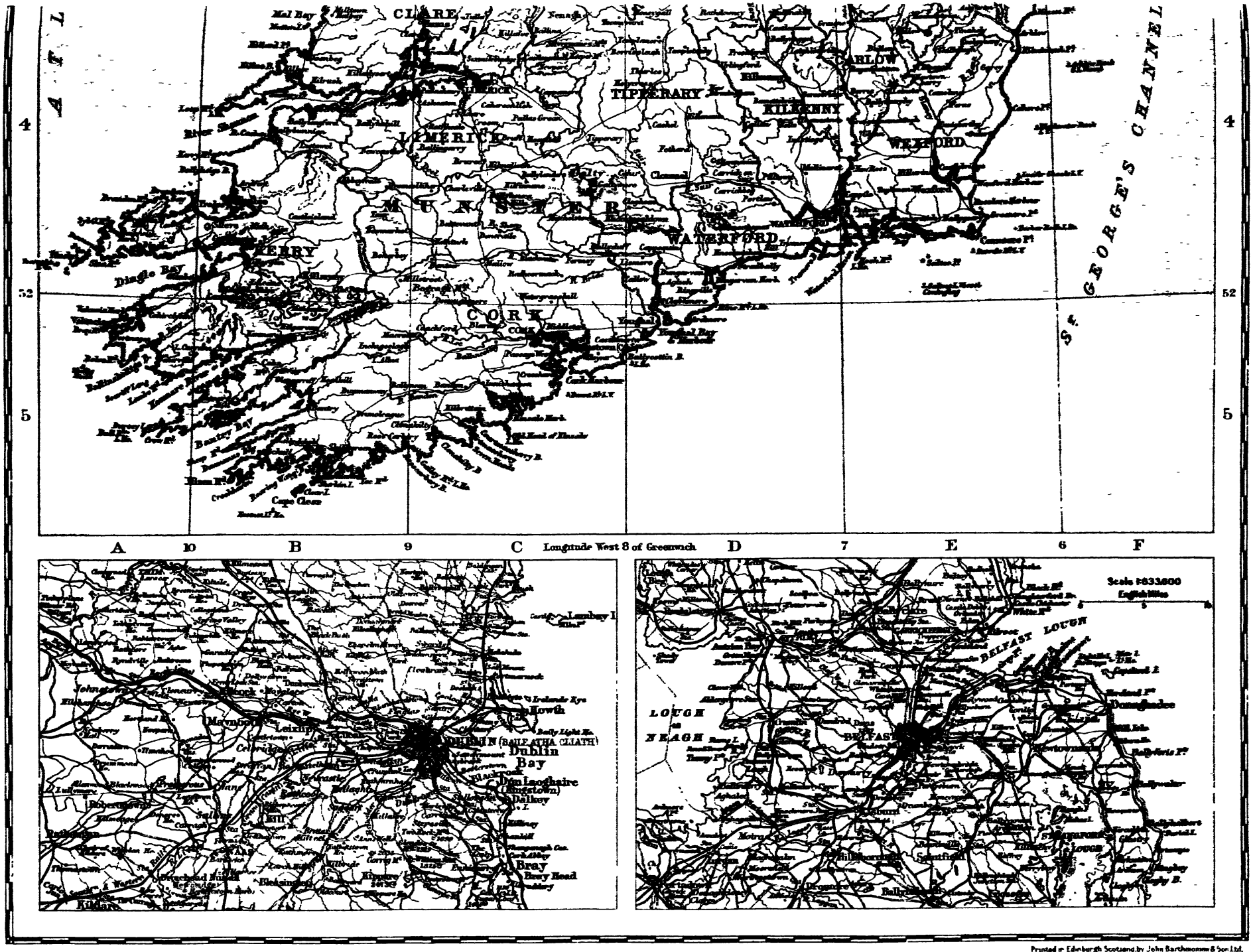

PEMBROKE
CARMARTHEN
GLAMORGAN
MONMOUTH
GLOUCESTER
SWANSEA
NEWPORT
CARDIFF
BRISTOL
BRISTOL CHANNEL
Bridgwater Bay
Bideford Bay
Lundy
Exmoor
Forest
Quantock Hills
Mendip Hills
SOMERSET
BARNSTAPLE
Bridgwater
Taunton
Wells
Frome
Yeovil
Sherborne
Shaftesbury
Blandford
DORSET
Wimborne
Bournemouth
Christchurch
DORCHESTER
Weymouth
Portland Bill
Lyme Bay
Torrington
Tiverton
Cullompton
Honiton
Axminster
Chard
Okehampton
EXETER
Crediton
Topsham
Exmouth
Budleigh Salterton
Sidmouth
Dawlish
Teignmouth
Newton Abbot
TORQUAY
Paignton
Brixham
Tor Bay
Start Bay
Start Pt.
Dartmouth
Kingsbridge
Ivybridge
PLYMOUTH
Plymouth Sound
Eddystone Lt.
Bodmin
Launceston
Camelford
Padstow
Port Isaac B.
Bude Bay
Hartland Pt.
Hartland
Clovelly
Ilfracombe
Lynton
Combe Martin
Watchet
Minehead
Dunster
Porlock Bay
Porlock
Lynmouth
Appledore
Braunton
Saunton
Westward Ho!
Northam
Instow
Barnstaple Bay
Braunton Burrows
Crow Point
Morte Pt.
Woolacombe
Ilfracombe
Hartland Pt.
Hartland
Clovelly
Bude
Boscastle
Tintagel
Port Isaac
Padstow
Newquay
Perranporth
St Ives
St Ives Bay
Hayle
Camborne
Redruth
Portreath
Gwithian
Godrevy Pt.
Carbis Bay
Lelant
Penzance
St Just
Land's End
Mount's Bay
Marazion
Helston
Falmouth
Falmouth Bay
Truro
St Agnes
Perranporth
Portreath
Redruth
Camborne
Hayle
St Ives
St Ives Bay
Gwithian
Godrevy Pt.
Carbis Bay
Lelant
Penzance
St Just
Land's End
Mount's Bay
Marazion
Helston
Falmouth
Falmouth Bay
Truro
St Agnes
Perranporth
Newquay
Bodmin
Callington
Saltash
Plymouth Sound
Eddystone Lt.
Bodmin
Launceston
Camelford
Padstow
Port Isaac B.
Bude Bay
Hartland Pt.
Hartland
Clovelly
Ilfracombe
Lynton
Combe Martin
Watchet
Minehead
Dunster
Porlock Bay
Porlock
Lynmouth
Appledore
Braunton
Saunton
Westward Ho!
Northam
Instow
Barnstaple Bay
Braunton Burrows
Crow Point
Morte Pt.
Woolacombe
Ilfracombe
Hartland Pt.
Hartland
Clovelly
Bude
Boscastle
Tintagel
Port Isaac
Padstow
Newquay
Perranporth
St Ives
St Ives Bay
Hayle
Camborne
Redruth
Portreath

ATLANTIC OCEAN
NORTH SEA
ORKNEY ISLANDS
SHETLAND ISLANDS
Outer Hebrides or Long Island
NORTH MINCH
SOUTH MINCH
GRAMPIAN MOUNTAINS
NORTH SEA



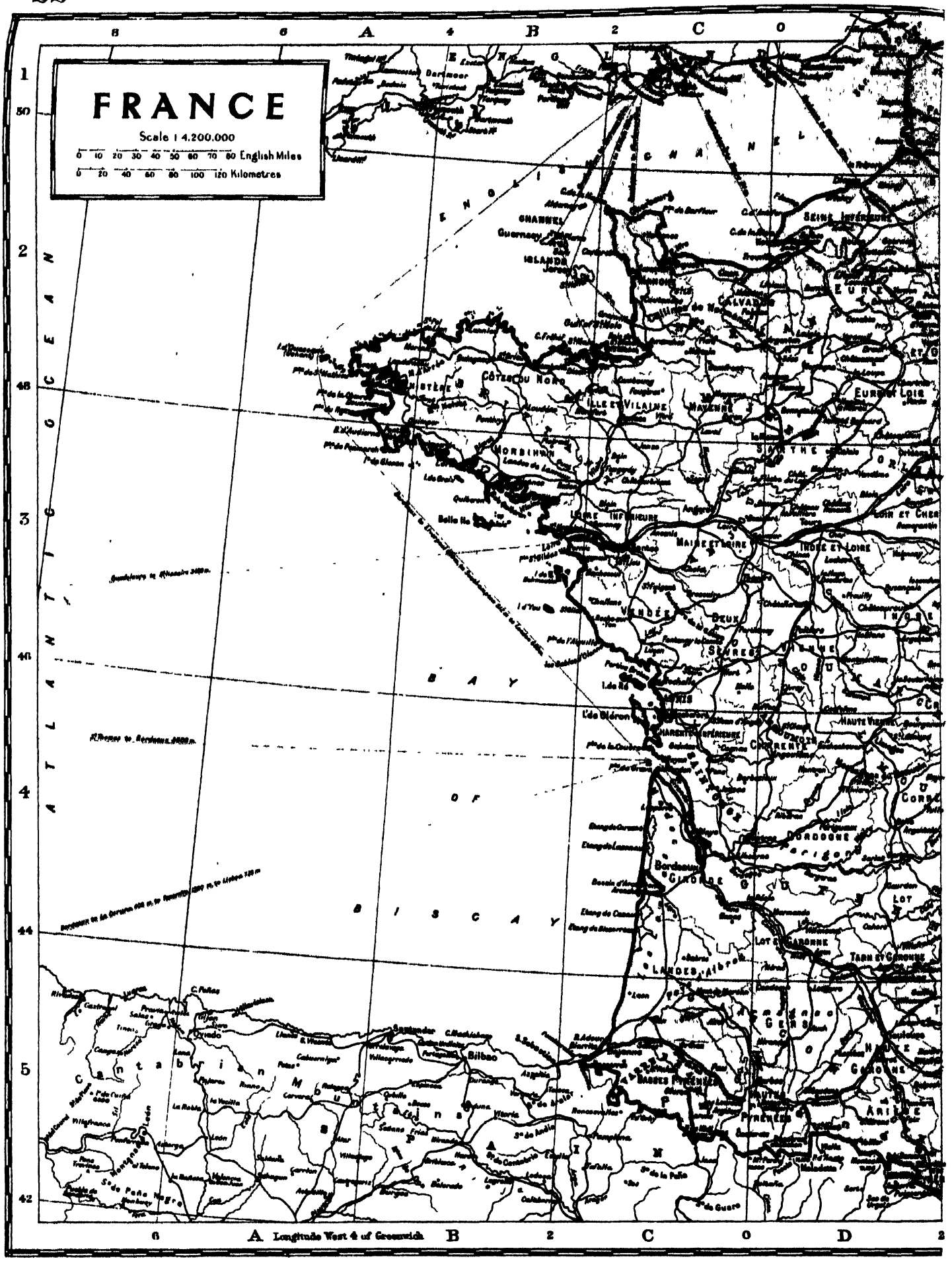
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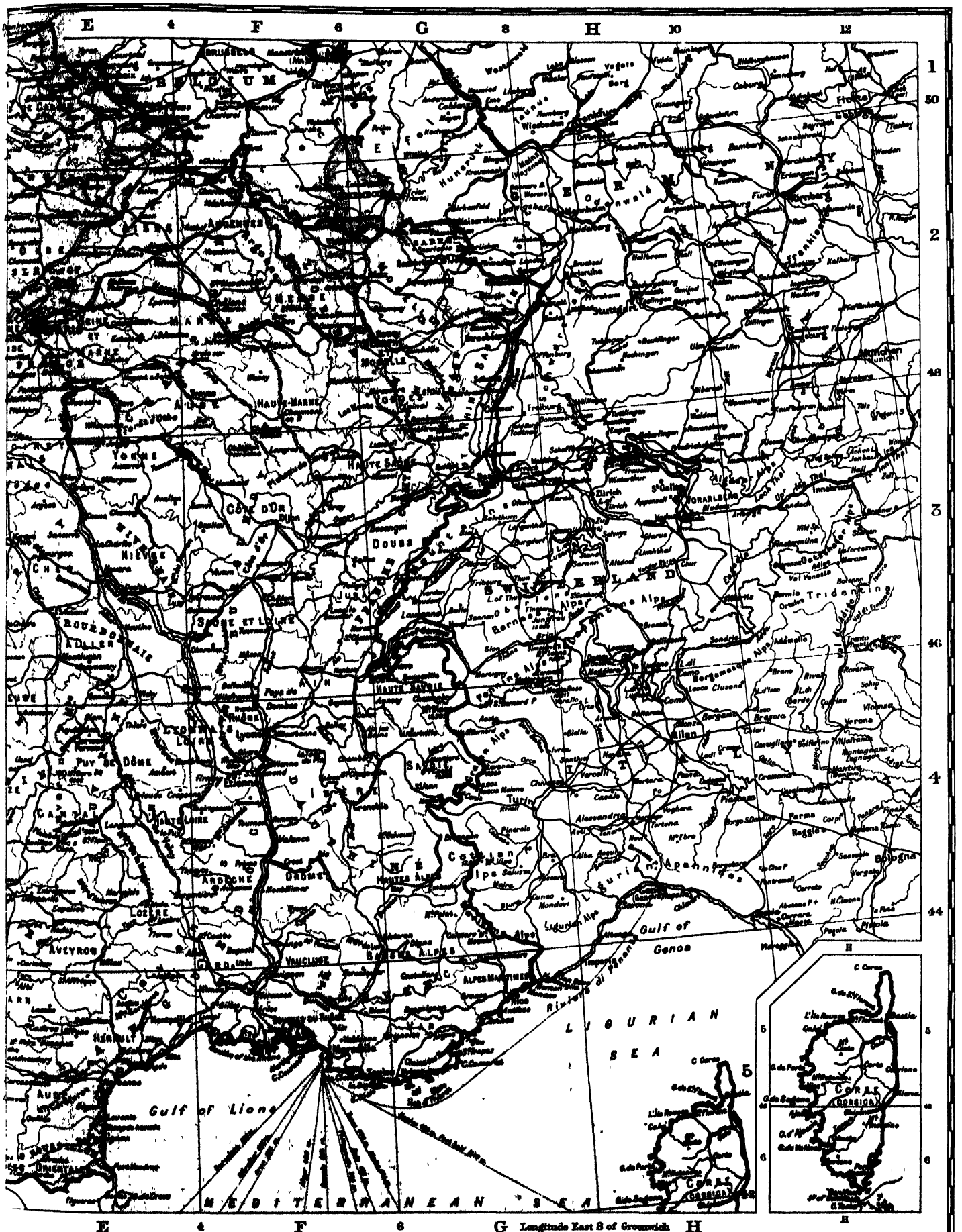

IRELAND
Scale 1:6000000
50 English Miles
50 Kilometres
NORTH CHANNEL
IRISH SEA
ATLANTIC OCEAN
NORTHERN IRELAND
DONEGAL
LONDONDERRY
TYRONE
FERMANAGH
ARMAGH
MONAGHAN
CAVAN
LOUTH
DUBLIN
MEATH
WESTMEATH
LONGFORD
ROSCOMMON
GALWAY
MAYO
CONNAUGHT
OFFALY
KILDARE
WICKLOW



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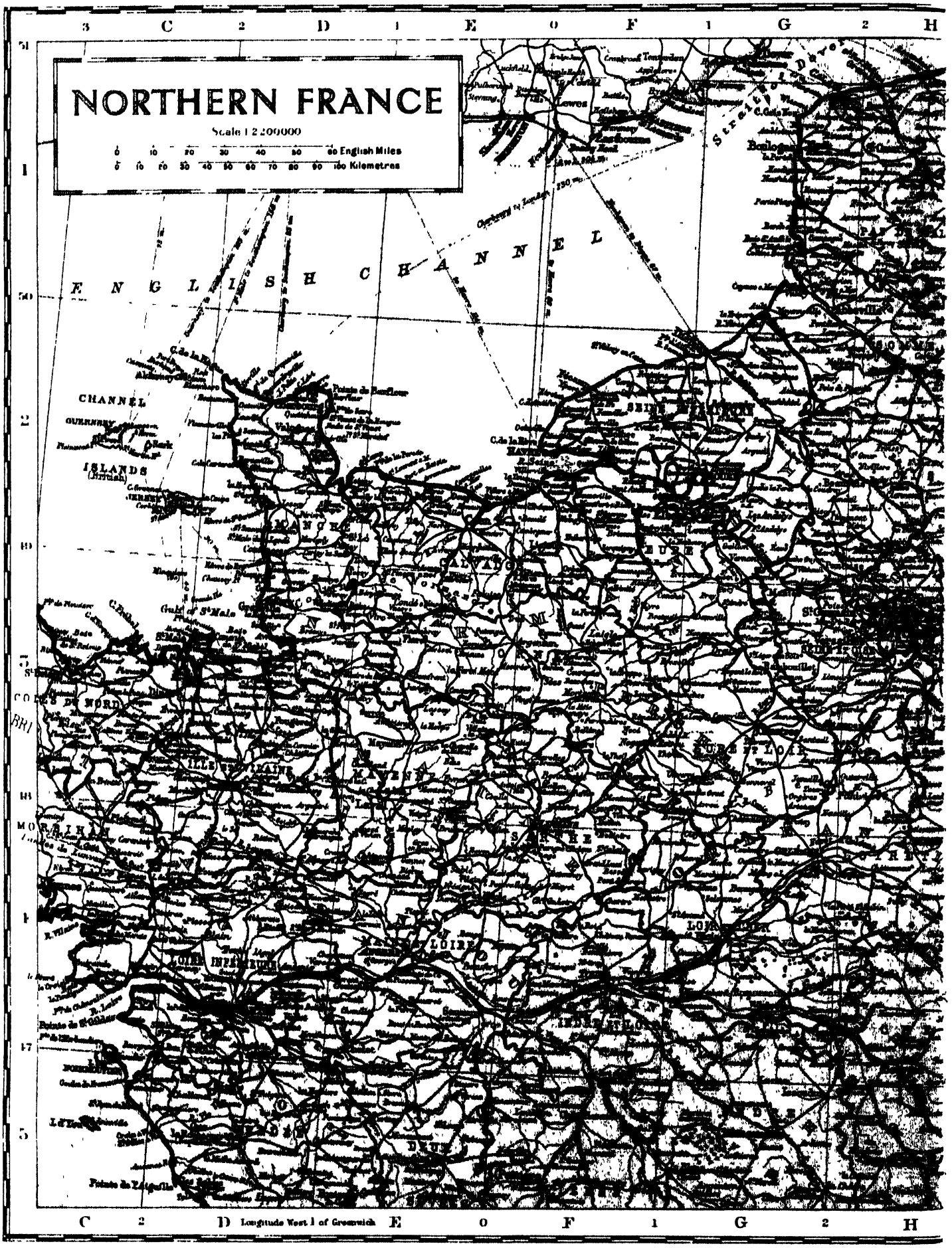
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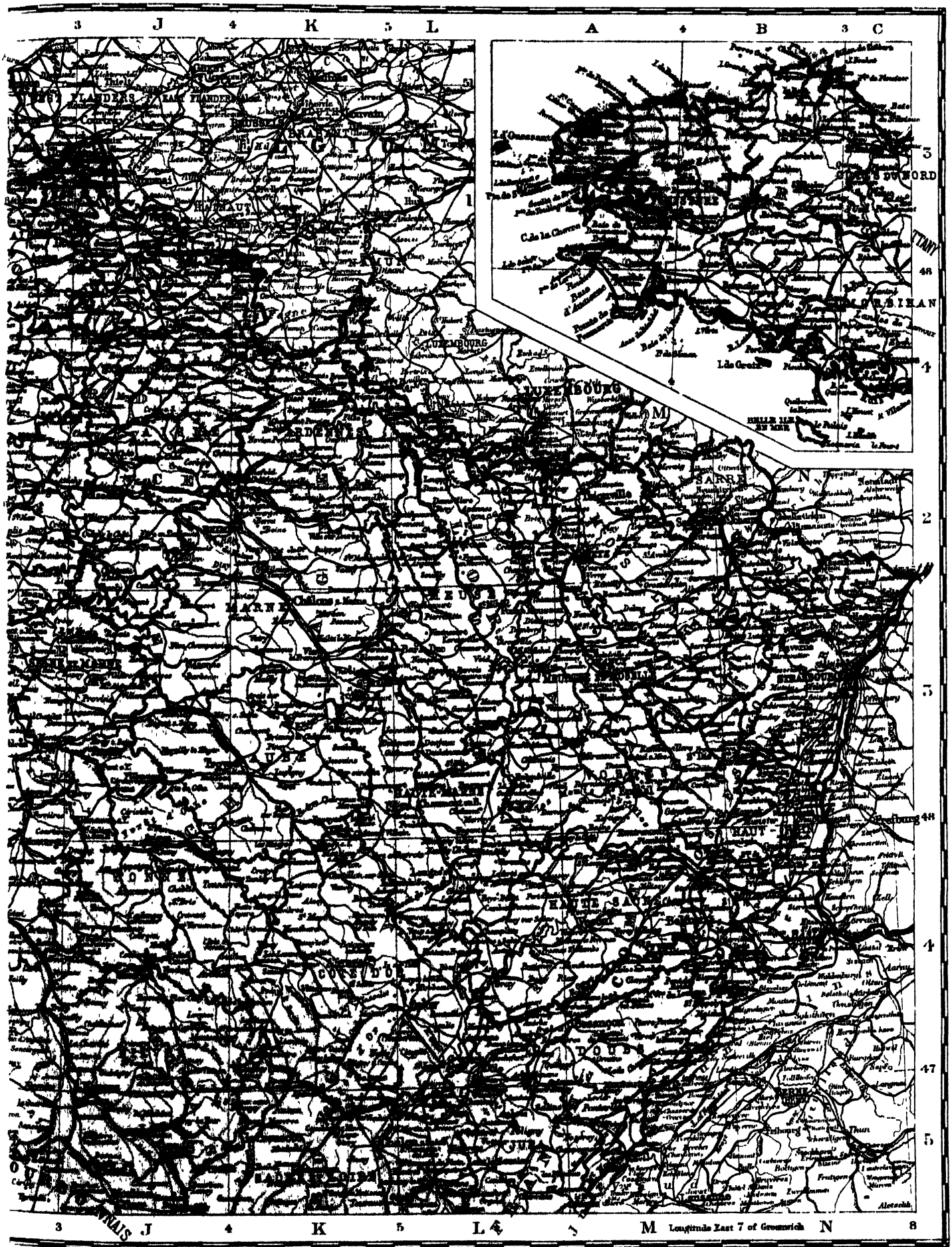

FRANCE
Scale 1 4,200,000
0 10 20 30 40 50 60 70 80 English Miles
0 20 40 60 80 100 120 Kilometres
ENGLISH CHANNEL
CHANNEL ISLANDS
Guernsey
Jersey
ATLANTIC OCEAN
BAY OF BISCAY
Bilbao
Santander
Oviedo
Cantabrian Mts
Pyrenees
Bordeaux
CÔTES DU NORD
ILLE ET VILAINE
MORBIHAN
LOIRE INFÉRIEURE
MAINE ET LOIRE
VENDÉE
DEUX SÈVRES
CHARENTE INFÉRIEURE
DORDOGNE
LOT
LANDES
BASSES PYRÉNÉES
HAUTE GARONNE
ARIÈGE
A Longitude West of Greenwich
B
C
D



Britannica

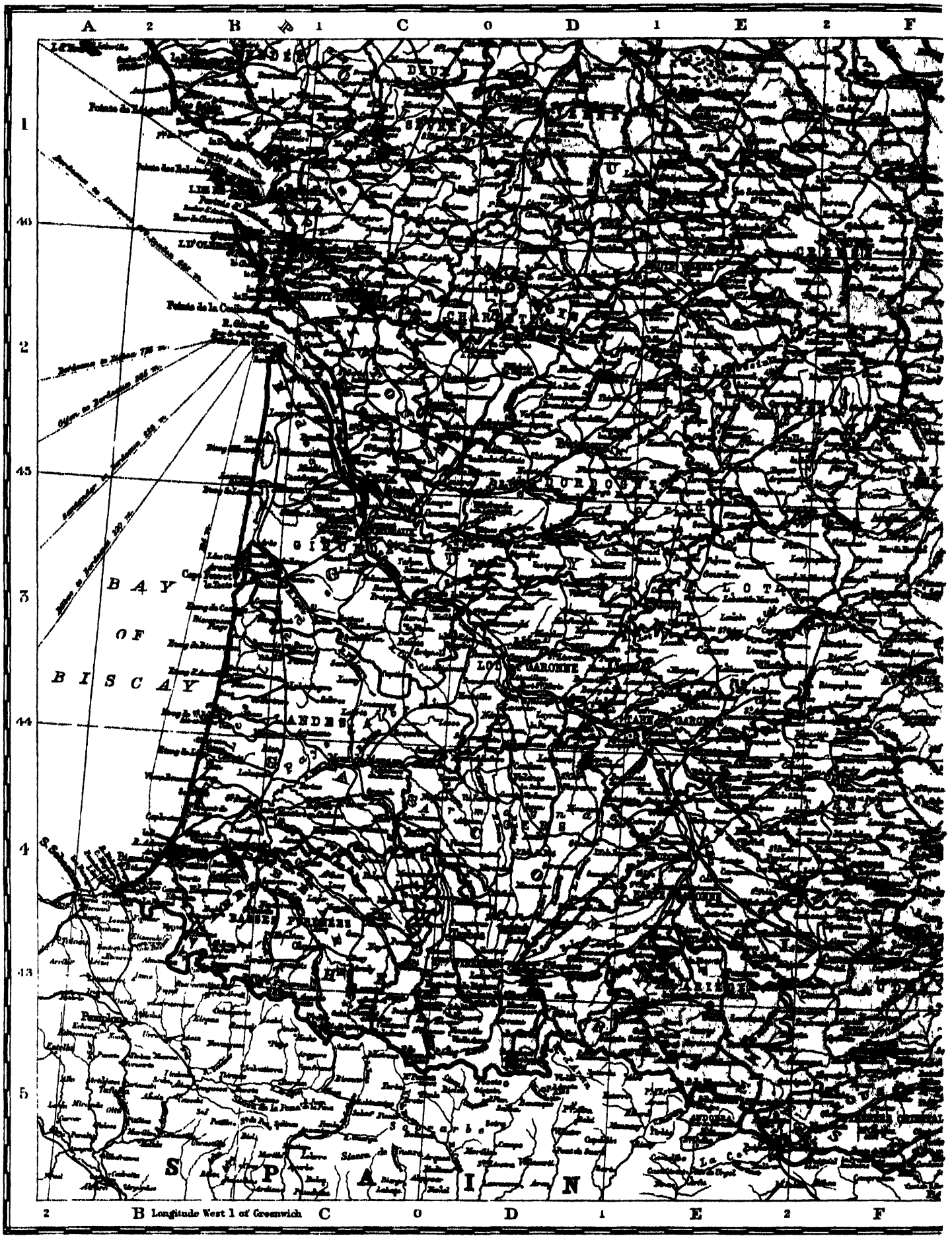
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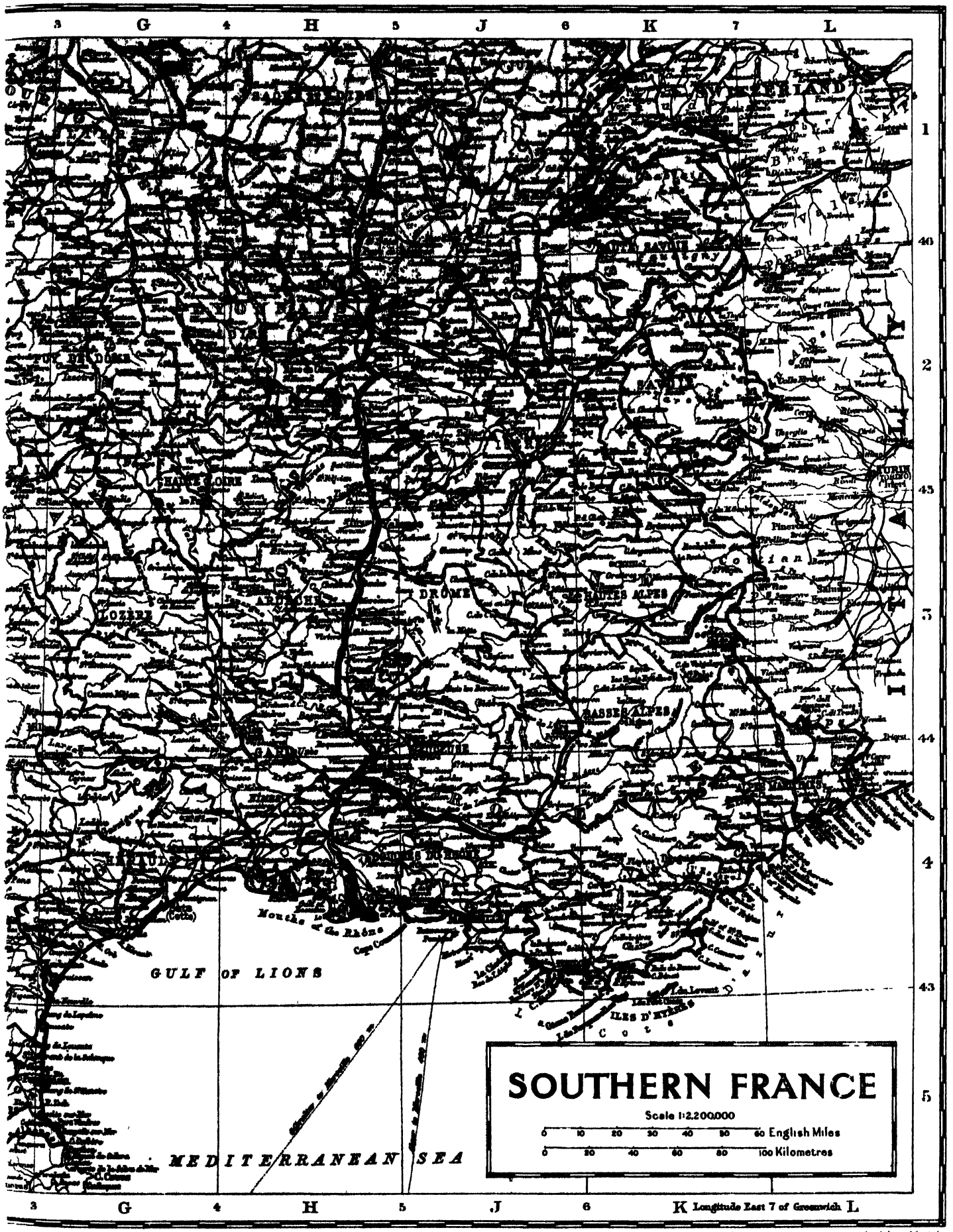

NORTHERN FRANCE
Scale 1 : 2 000 000
0 10 20 30 40 50 60 English Miles
0 10 20 30 40 50 60 70 80 90 100 Kilometres
ENGLISH CHANNEL
CHANNEL ISLANDS
Guernsey
Jersey
Guld of St Malo
Longitude West I of Greenwich



Britannica

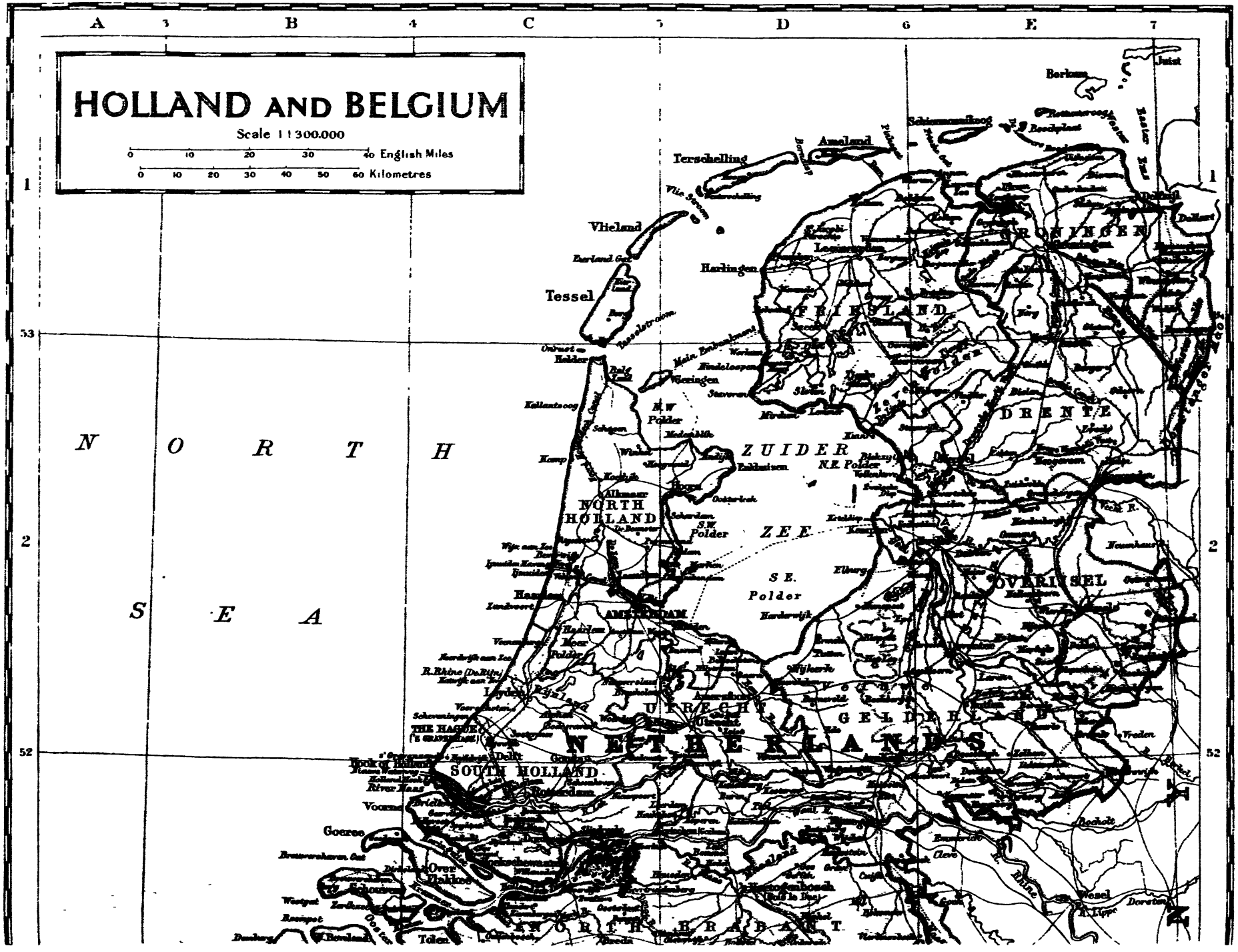
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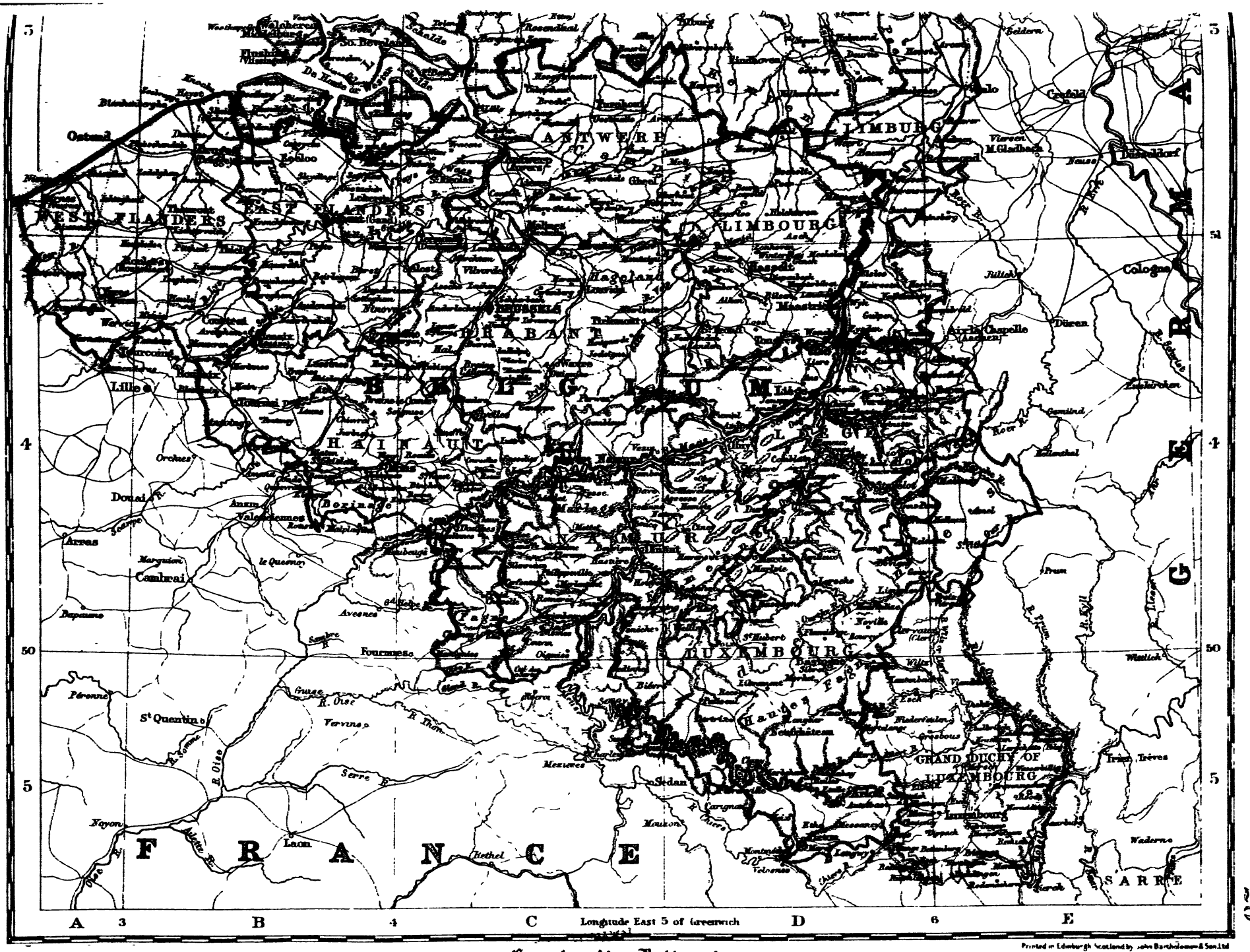

A 2 B 1 C 0 D 1 E 2 F
1
46
2
45
3
44
4
43
5
BAY
OF
BISCAY
SPAIN
B Longitude West 1 of Greenwich C 0 D 1 E 2 F



Britannica

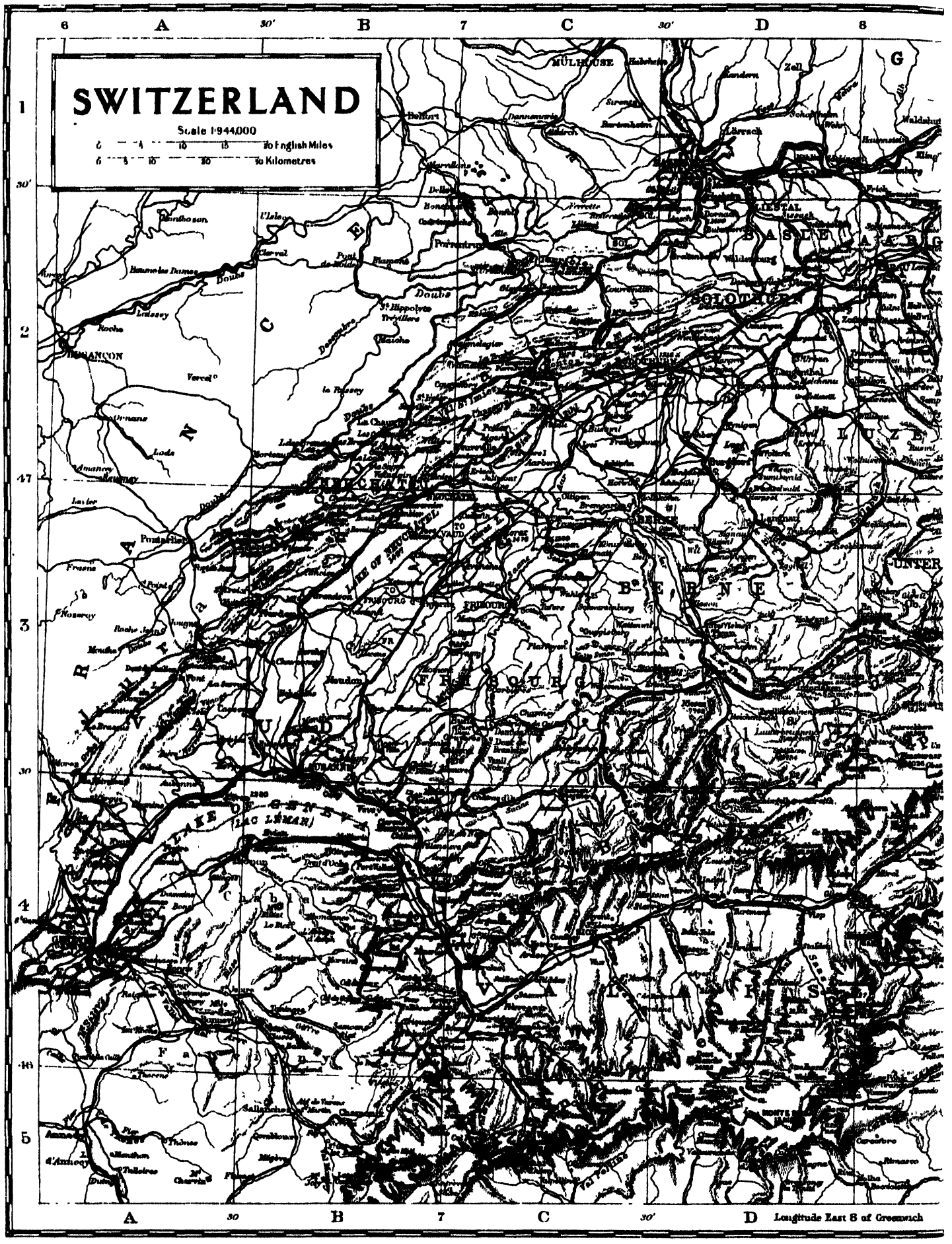
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HOLLAND AND BELGIUM
Scale 1 : 300.000
0 10 20 30 40 English Miles
0 10 20 30 40 50 60 Kilometres
A
B
C
D
E
1
2
3
4
5
6
7
53
52
NORTH SEA
Terschelling
Ameland
Schiermonnikoog
Borkum
Juist
Vlieland
Tessel
Harlingen
FRIESLAND
GRONINGEN
DRENTE
OVERIJSSEL
ZUIDER ZEE
NW Polder
NE Polder
SW Polder
SE Polder
NORTH HOLLAND
SOUTH HOLLAND
UTRECHT
GELDERLAND
NETHERLANDS
NORTH BRABANT
AMSTERDAM
THE HAGUE
Alkmaar
Leyden
Delft
Rotterdam
Goeree
Over Flakkee
Tholen
Bergen op Zoom
Breda
Arnhem
Nijmegen
Zutphen
Deventer
Hengelo
Enschede
Zwolle
Kampen
Meppel
Assen
Leeuwarden
Sneek
Dokkum
Harlingen
Terschelling
Vlieland
Tessel
Den Helder
Texel
Wieringen
Enkhuizen
Hoorn
Alkmaar
Haarlem
Amsterdam
Utrecht
Amersfoort
Apeldoorn
Deventer
Zwolle
Kampen
Emmeloord
Lelystad
Almere
Gouda
Dordrecht
Rotterdam
Vlaardingen
Delft
Leyden
Haarlem
Zaandam
Helmond
Eindhoven
Tilburg
Breda
Roosendaal
Bergen op Zoom
Middelburg
Vlissingen
Terneuzen
Hulst
Goes
Zierikzee
Brouwershaven
Westkapelle
Domburg
Veere
Arnemuiden
Flushing
Ostend
Dunkirk
Calais
Boulogne
Ijsselmeer
Markermeer
Wadden Zee
Eastern Ems
Dollart
Lauwers Zee
Ems
Dollart
Vlie Stroom
Eierland Gat
Texel Stroom
Marsdiep
Helder Gat
Kornwerderzand
Afsluitdijk
Enkhuizer Zeedijk
Houtribdijk
Gaasperplas
Naarden
Hilversum
Amstelveen
Schiphol
Haarlemmermeer
Aalsmeer
Wormerveer
Zaandam
Purmerend
Edam
Volendam
Monnickendam
Marken
Muiden
Weesp
Diemen
Ouderkerk
Abcoude
Loenen
Vreeland
Nieuwersluis
Maarssen
Breukelen
Loosdrecht
Naarden
Bussum
Huizen
Laren
Blaricum
Eemnes
Baarn
Soest
Amersfoort
Zeist
Bilthoven
De Bilt
Utrecht
Houten
Vianen
Culemborg
Tiel
Geldermalsen
Zaltbommel
Gorinchem
Dordrecht
Papendrecht
Sliedrecht
Hardinxveld
Giessendam
Alblasserdam
Rotterdam
Schiedam
Vlaardingen
Maassluis
Hoek van Holland
Delft
Rijswijk
Voorburg
Leidschendam
Wassenaar
Scheveningen
The Hague
Leyden
Katwijk
Noordwijk
Zandvoort
Haarlem
Heemstede
Aerdenhout
Bloemendaal
Overveen
Beverwijk
Velsen
IJmuiden
Zaandam
Purmerend
Hoorn
Enkhuizen
Medemblik
Wieringen
Den Helder
Texel
Vlieland
Terschelling
Ameland
Schiermonnikoog
Borkum
Juist
Leeuwarden
Sneek
Heerenveen
Drachten
Dokkum
Harlingen
Franeker
Bolsward
Workum
Hindeloopen
Stavoren
Lemmer
Joure
Akkrum
Gaastmeer
Emmeloord
Kuinder
Urk
Lelystad
Almere
Harderwijk
Elburg
Nunspeet
Ermelo
Putten
Barneveld
Nijkerk
Hoevelaken
Amersfoort
Soest
Baarn
Hilversum
Naarden
Bussum
Huizen
Laren
Blaricum
Eemnes
Zeist
Bilthoven
De Bilt
Utrecht
Houten
Vianen
Culemborg
Tiel
Geldermalsen
Zaltbommel
Gorinchem
Dordrecht
Papendrecht
Sliedrecht
Hardinxveld
Giessendam
Alblasserdam
Rotterdam
Schiedam
Vlaardingen
Maassluis
Hoek van Holland
Delft
Rijswijk
Voorburg
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Wassenaar
Scheveningen
The Hague
Leyden
Katwijk
Noordwijk
Zandvoort
Haarlem
Heemstede
Aerdenhout
Bloemendaal
Overveen
Beverwijk
Velsen
IJmuiden
Zaandam
Purmerend
Hoorn
Enkhuizen
Medemblik
Wieringen
Den Helder
Texel
Vlieland
Terschelling
Ameland
Schiermonnikoog
Borkum
Juist
Leeuwarden
Sneek
Heerenveen
Drachten
Dokkum
Harlingen
Franeker
Bolsward
Workum
Hindeloopen
Stavoren
Lemmer
Joure
Akkrum
Gaastmeer
Emmeloord
Kuinder
Urk
Lelystad
Almere
Harderwijk
Elburg
Nunspeet
Ermelo
Putten
Barneveld
Nijkerk
Hoevelaken
Amersfoort
Soest
Baarn
Hilversum
Naarden
Bussum
Huizen
Laren
Blaricum
Eemnes
Zeist
Bilthoven
De Bilt
Utrecht
Houten
Vianen
Culemborg
Tiel
Geldermalsen
Zaltbommel
Gorinchem
Dordrecht
Papendrecht
Sliedrecht
Hardinxveld
Giessendam
Alblasserdam
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Schiedam
Vlaardingen
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Rijswijk
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Leidschendam
Wassenaar
Scheveningen
The Hague
Leyden
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Heemstede
Aerdenhout
Bloemendaal
Overveen
Beverwijk
Velsen
IJmuiden



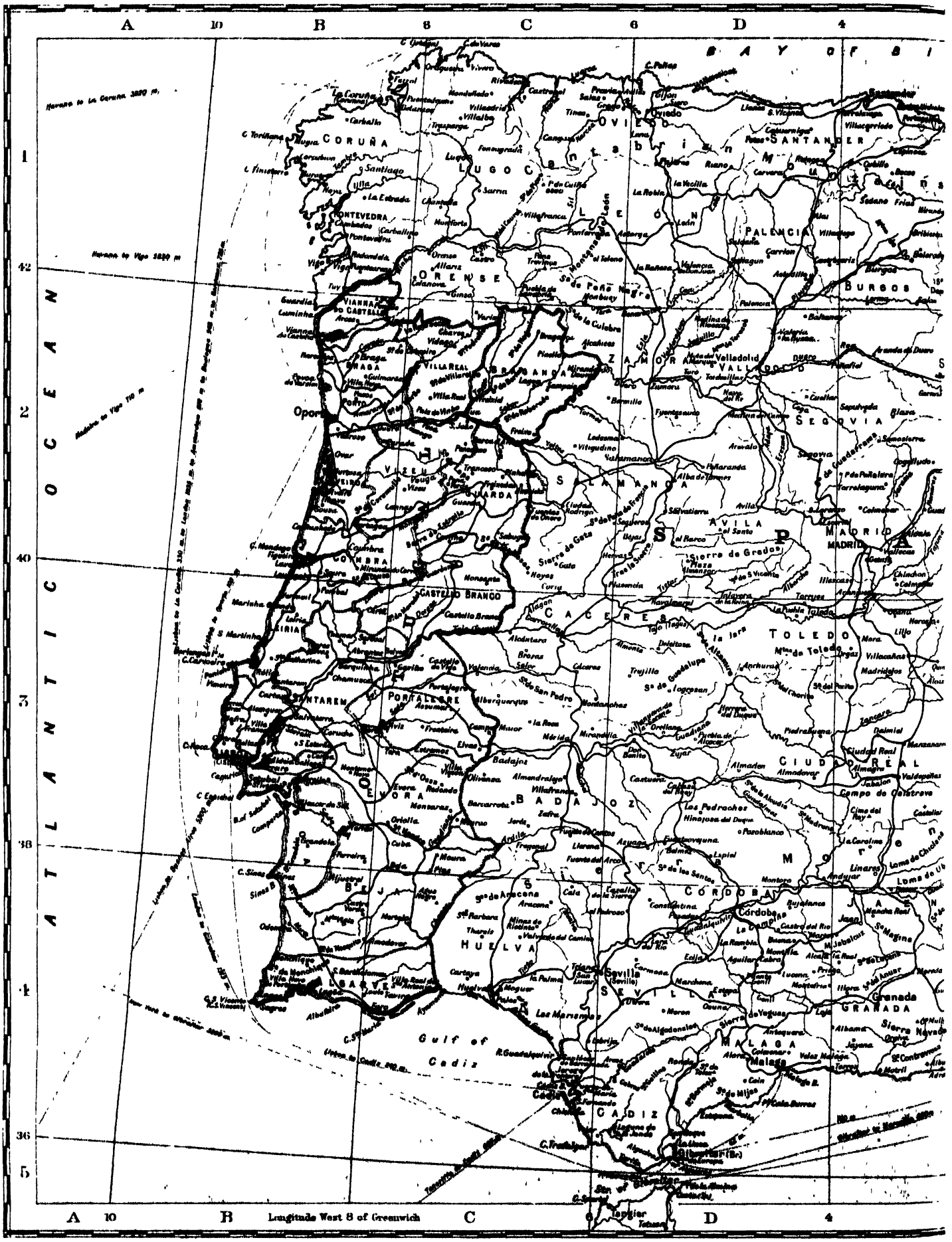
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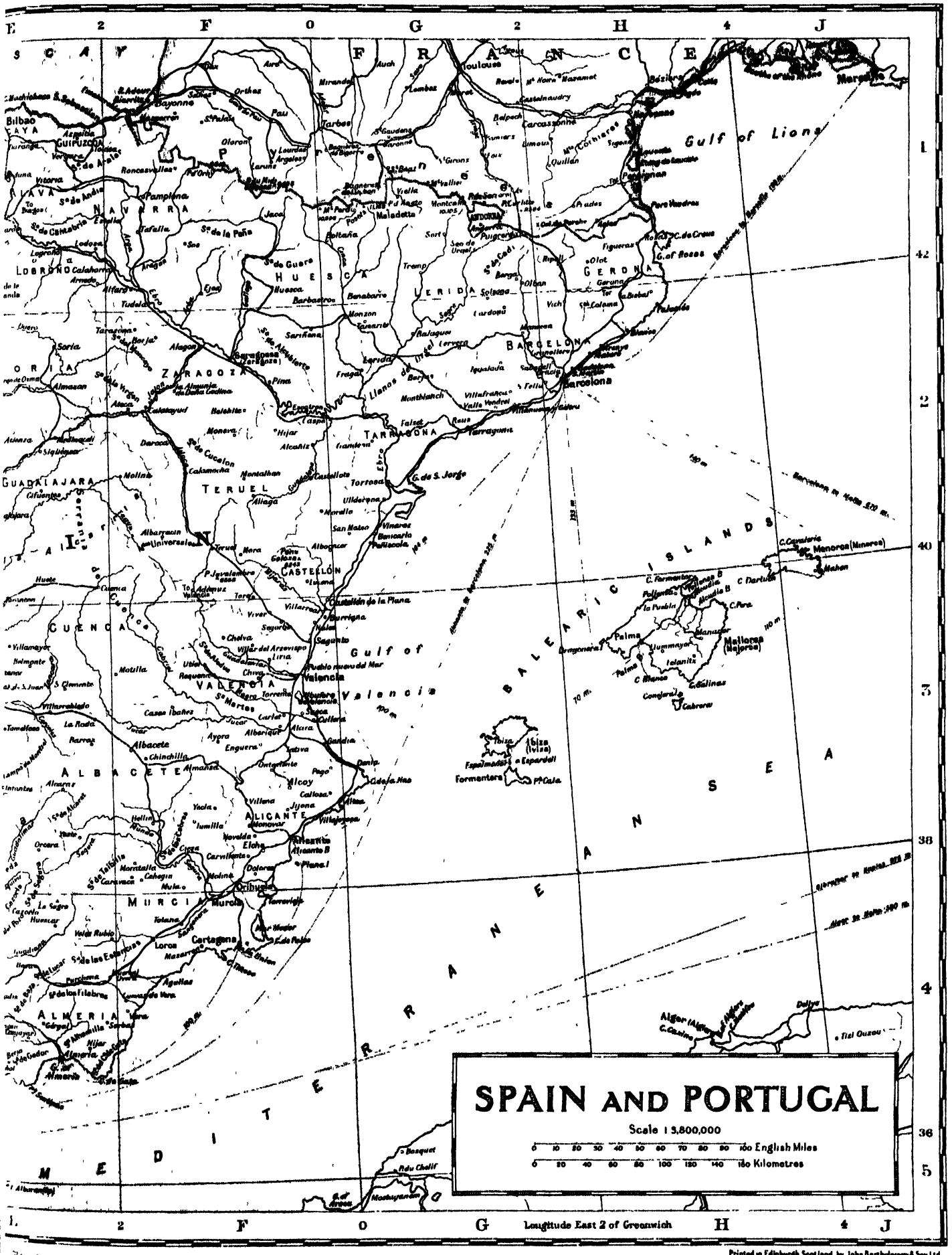
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SWITZERLAND
Scale 1:944,000
10 English Miles
10 Kilometres
MÜLHOUSE
BESANÇON
LAKE OF NEUFCHATEL
LAKE OF GENEVA
LAC LÉMAN
SOLOTHURN
BASLE
LUZERN
BERNE
UNTERWALDEN
FRIBOURG
VALAIS
Longitude East 8 of Greenwich



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A 10
B 8
C 6
D 4
1
42
2
40
3
38
4
36
5
B A Y O F B I
O C E A N
A T L A N T I C
Spain
Portugal
Cantabria
Asturias
CORUÑA
LUGO
OVIEDO
SANTANDER
PONTEVEDRA
ORENSE
LEON
PALENCIA
BURGOS
VIANNA DO CASTELLO
BRAGA
VILLA REAL
BRAGANÇA
ZAMORA
VALLADOLID
SEGOVIA
VISEU
SALAMANCA
AVEIRO
COIMBRA
AVILA
MADRID
CASTELLO BRANCO
CACERES
TOLEDO
SANTAREM
PORTALEGRE
CIUDAD REAL
LISBOA
EVORA
BADAJOZ
CORDOBA
SETUBAL
BEJA
HUELVA
SEVILLA
GRANADA
ALGARVE
MALAGA
CADIZ
Gulf of Cadiz
Sierra de Gredos
Sierra Nevada
Lisbon
Oporto
Coimbra
Badajoz
Seville
Cadiz
Malaga
Granada
Cordoba
Toledo
Madrid
Valladolid
Salamanca
Tangier
Gibraltar
Longitude West 8 of Greenwich



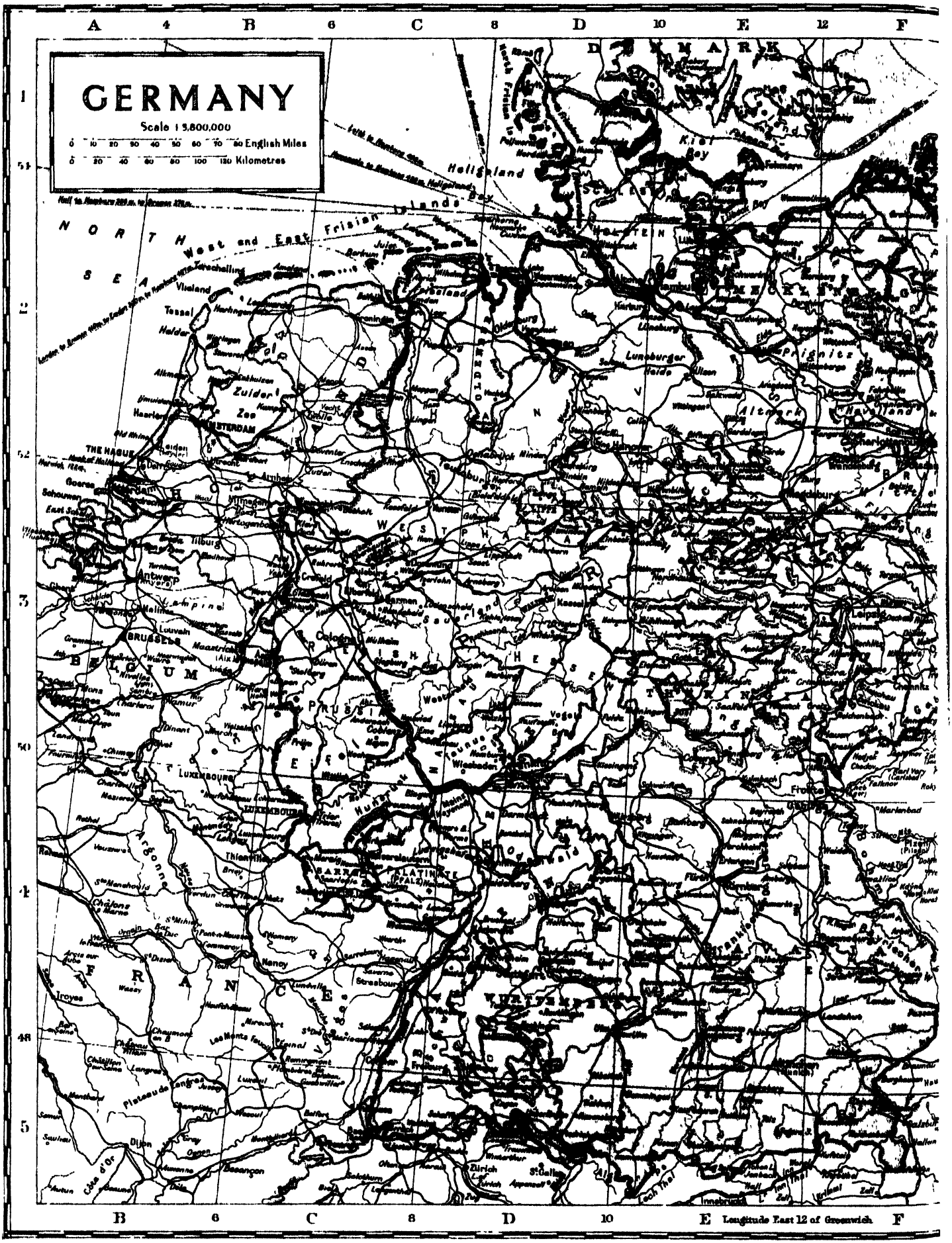
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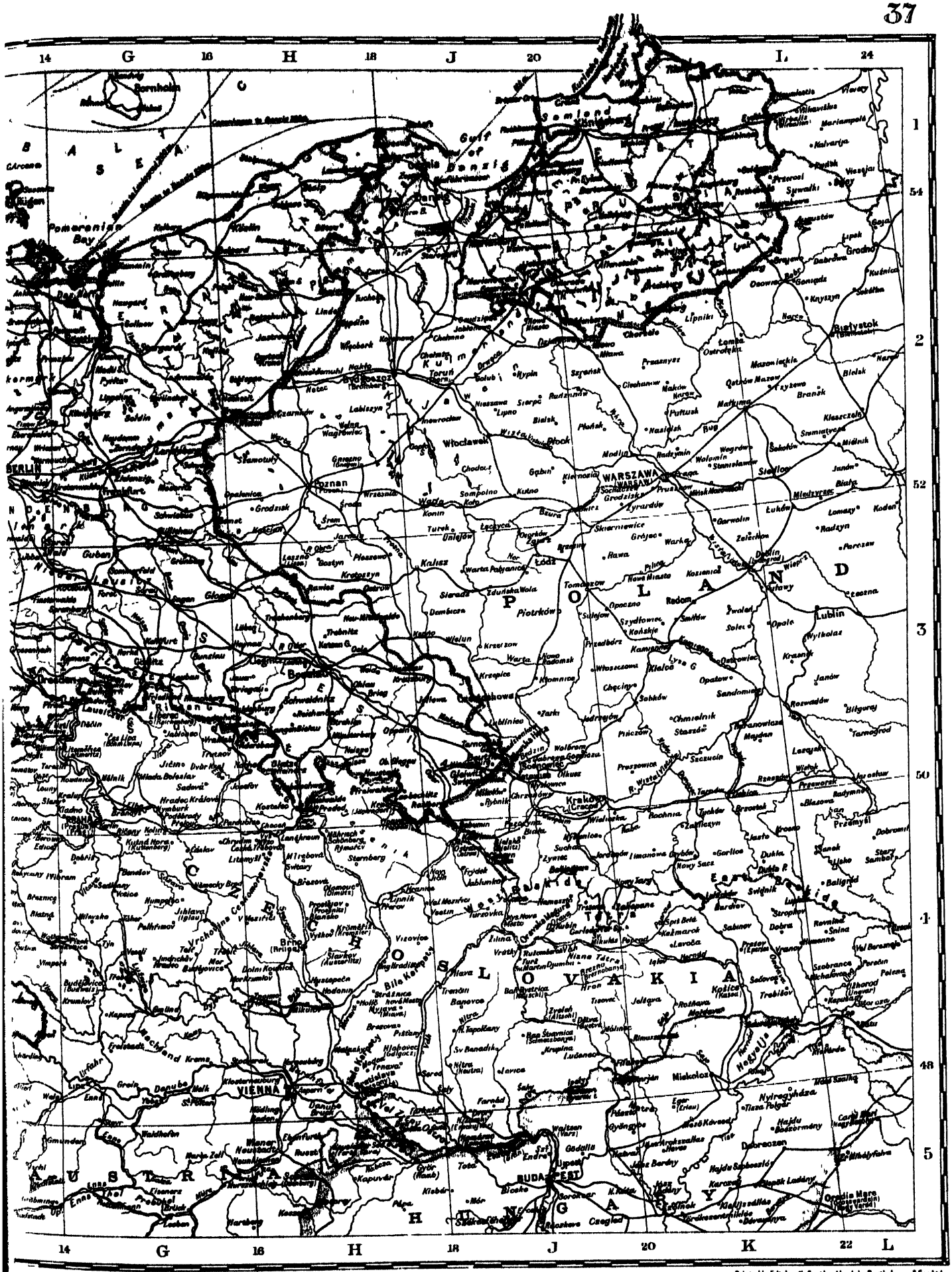

ITALY
Scale 1 4 000 000
0 10 20 30 40 50 60 70 80 English Miles
0 20 40 60 80 100 120 Kilometres
A 8 B 10 C 12 D 14 E 16 F 18
1
2
3
42
44
46
GERMANY
AUSTRIA
SWITZERLAND
HUNGARY
SLOVENIA
YUGOSLAVIA
HERCEGOVINA
LOMBARDIA
PIEMONTE
VENEZIA
EMILIA
TOSCANA
MARCHE
UMBRIA
ABRUZZI
LAZIO
CORSE (CORSICA)
Gulf of Venice
Gulf of Genoa
LIGURIAN SEA
ADRIATIC SEA
Venetian Alps
Dolomites
Niedere Tauern
Hohe Tauern
Carnic Alps
Julian Alps
Bernese Alps
Pennine Alps
Lepontine Alps
Rhaetian Alps
Apennines
Monte Rosa
Mont Blanc
Matterhorn
Gran Paradiso
Monte Viso
Monte Cenis
Mont Cenis Tunnel
Simplon Tunnel
Lötschberg Tunnel
Gotthard Tunnel
Brenner Pass
Tarvisio
Trieste
Venice
Milan
Turin
Genoa
Bologna
Florence
Rome
Ancona
Pescara
Naples
Elba
Corsica
Sardinia

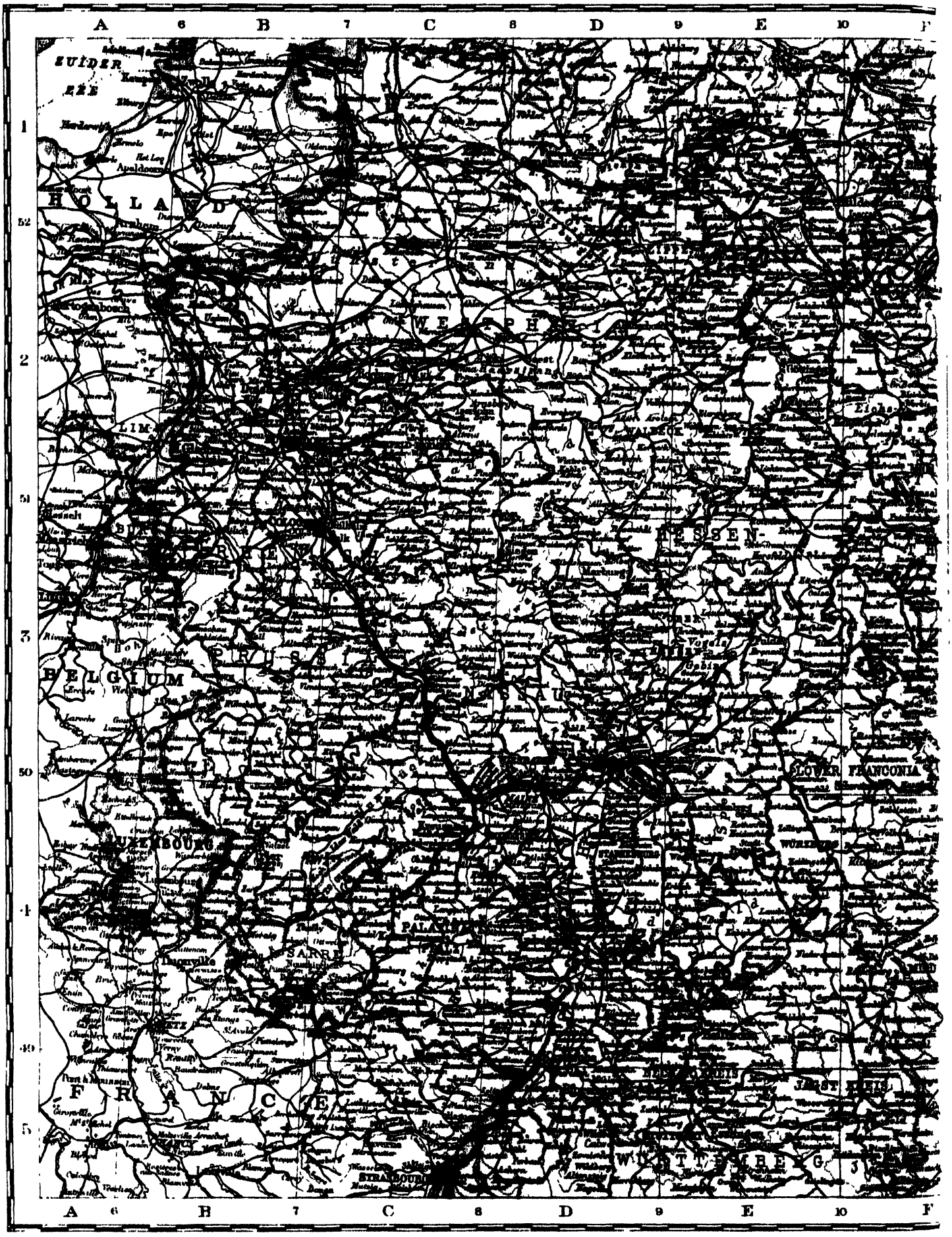


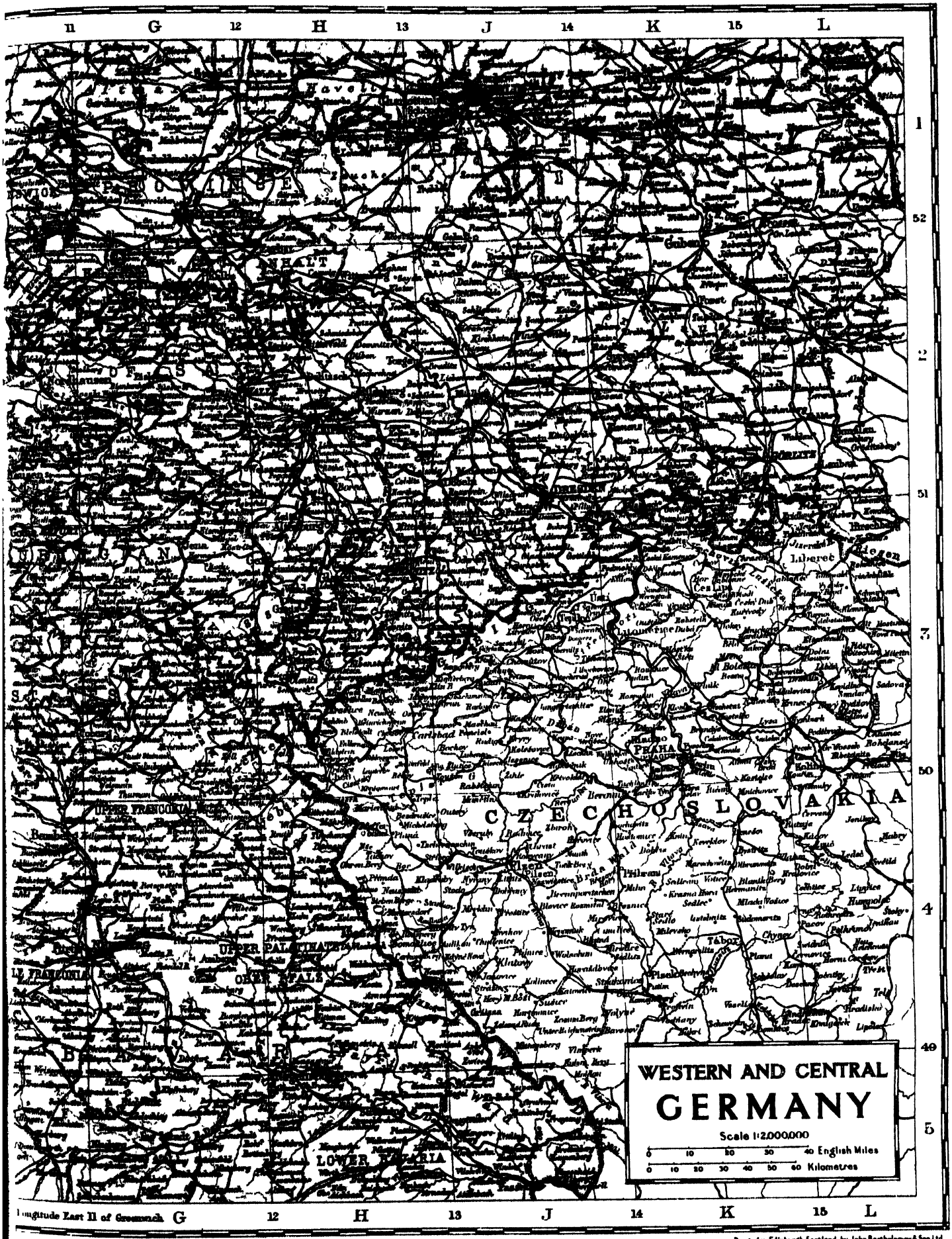
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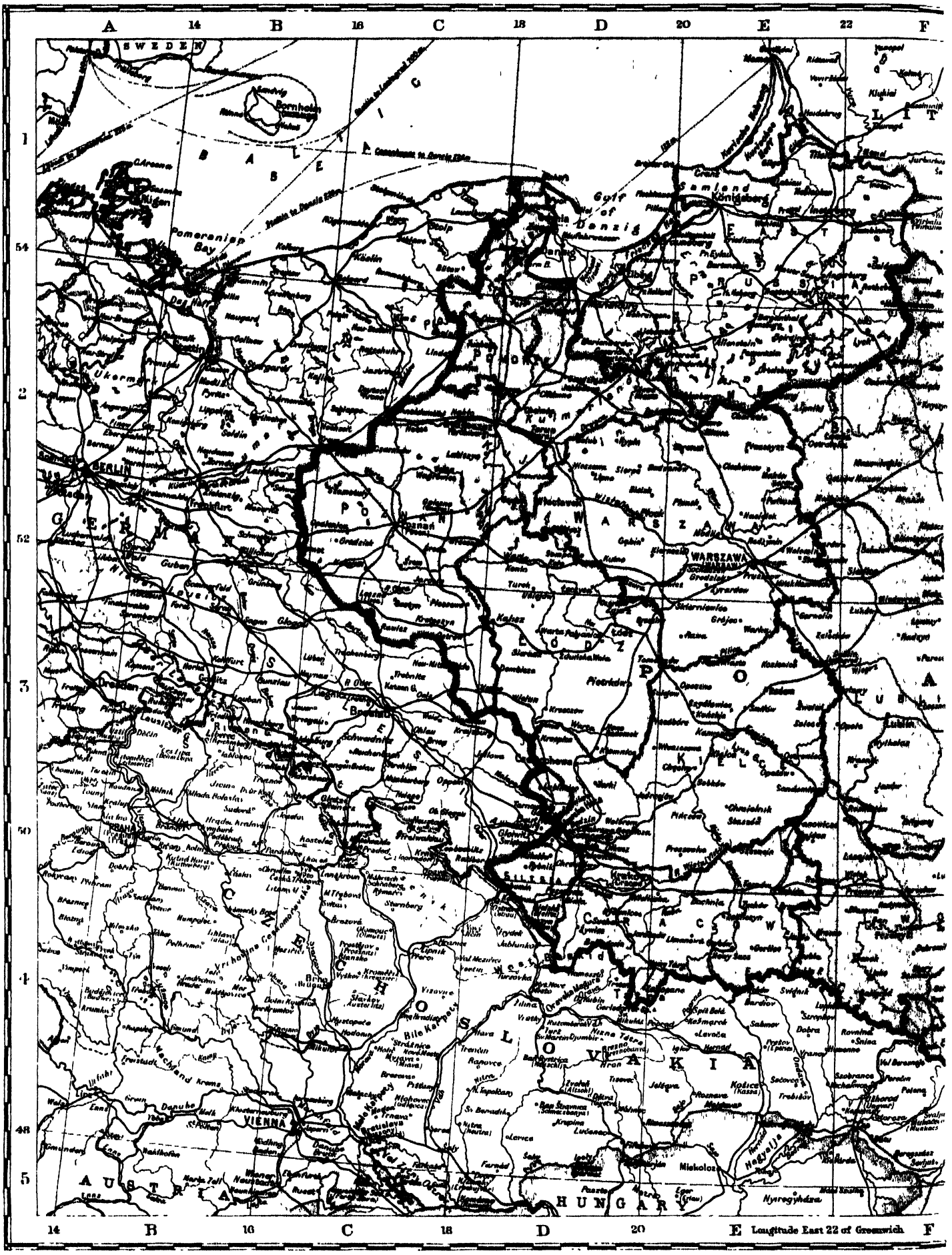

GERMANY
Scale 1 3,800,000
0 10 20 30 40 50 60 70 80 English Miles
0 20 40 60 80 100 120 Kilometres
A 4 B 6 C 8 D 10 E 12 F
1
54
2
52
3
50
4
48
5
DENMARK
Kiel Bay
Heligoland
Helgoland Bay
NORTH SEA
West and East Frisian Islands
Vlieland
Texel
Zuider Zee
AMSTERDAM
THE HAGUE
Antwerp
BRUSSELS
BELGIUM
LUXEMBOURG
Dijon
Besançon
Zürich
St. Gallen
Innsbruck
Longitude East 12 of Greenwich

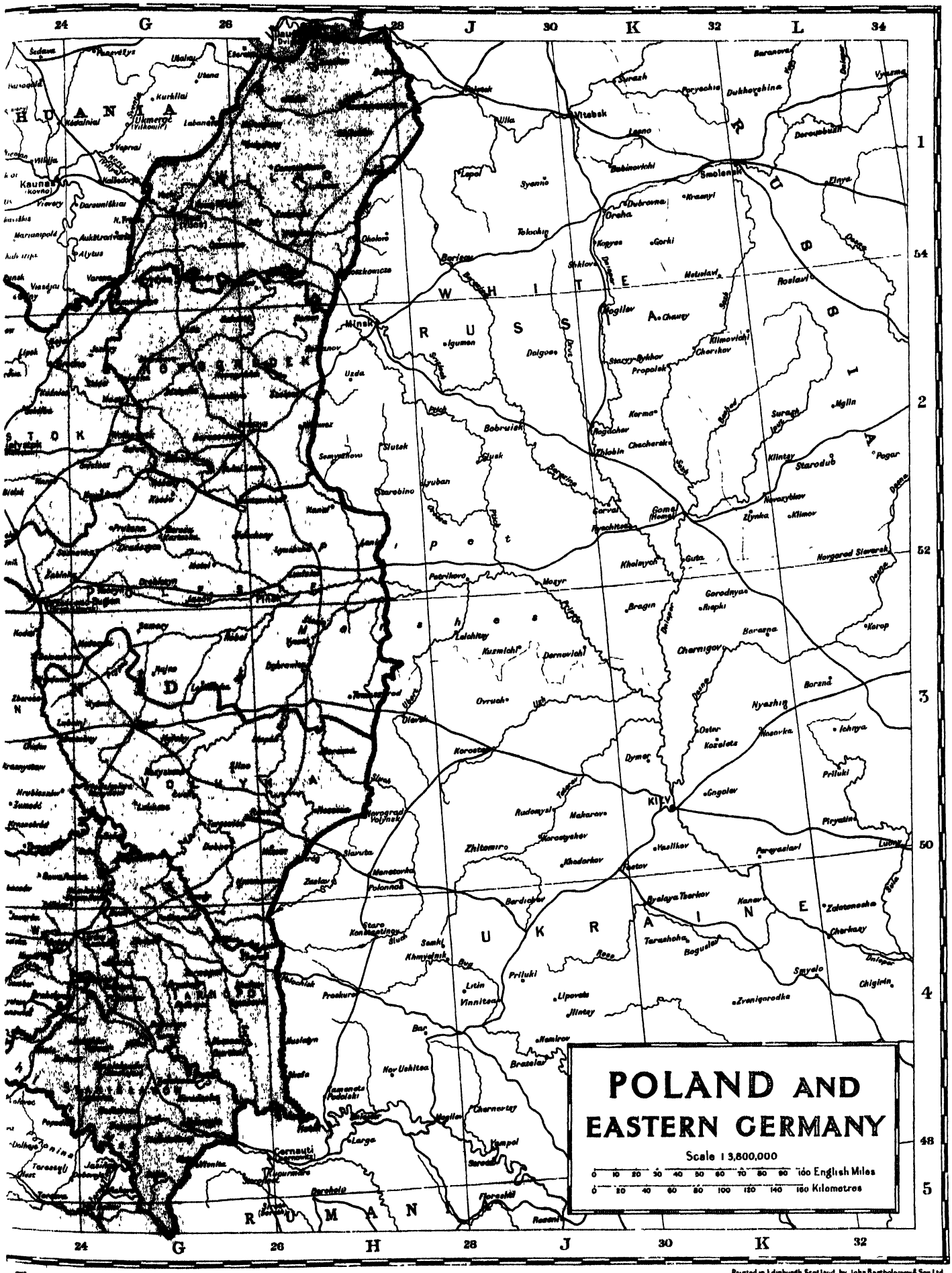

14 G 16 H 18 J 20 K 22 L
1
54
2
52
3
50
1
48
5
B A L T I C S E A
Gulf of Danzig
Pomeranian Bay
Bornholm
POLAND
WARSZAWA
Gdańsk
Bydgoszcz
Toruń
Włocławek
Poznań
Łódź
Piotrków
Radom
Lublin
Kraków
Katowice
Przemyśl
Białystok
Grodno
Suwałki
Ostrołęka
Siedlce
Płock
Mława
Kalisz
Konin
Sieradz
Częstochowa
Opole
Rzeszów
Tarnów
Nowy Sącz
Zakopane
Sanok
Stary Sambor
BERLIN
Frankfurt
Cottbus
Guben
Forst
Görlitz
Liegnitz
Breslau
Oppeln
Gleiwitz
Hindenburg
Ratibor
Beuthen
Kattowitz
Sosnowiec
Dresden
Leipzig
Chemnitz
Zwickau
Plauen
Hof
Bayreuth
Coburg
Meiningen
Erfurt
Weimar
Gotha
Eisenach
Kassel
Fulda
Hanau
Frankfurt
Darmstadt
Mannheim
Heidelberg
Karlsruhe
Stuttgart
Ulm
Augsburg
Ingolstadt
Regensburg
Passau
Linz
Salzburg
Innsbruck
Bregenz
Zürich
Basel
Strasbourg
Metz
Nancy
Luxembourg
Trier
Koblenz
Bonn
Cologne
Aachen
Düsseldorf
Duisburg
Essen
Dortmund
Bielefeld
Hannover
Braunschweig
Magdeburg
Halle
Leipzig
Rostock
Stettin
Swinemünde
Kolberg
Köslin
Stolp
Danzig
Elbing
Allenstein
Insterburg
Memel
Tilsit
Königsberg
Gumbinnen
Lyck
Augustów
Grajewo
Łomża
Ostrów Mazowiecka
Siedlce
Biała
Międzyrzec
Lublin
Chełm
Zamość
Tarnogród
Jarosław
Przemyśl
Sanok
Lesko
Ustrzyki
Stryj
Drohobycz
Boryslaw
Sambor
Lwów
Tarnopol
Brody
Rowno
Kowel
Brest
Pinsk
Baranowicze
Nowogródek
Lida
Wilno
Kowno
Libau
Windau
Mitau
Riga
Pernau
Reval
Narva
Pskov
Dvinsk
Polotsk
Vitebsk
Orsha
Mogilev
Smolensk
Gomel
Bryansk
Kursk
Orel
Tula
Moscow
Kaluga
Mozhaisk
Volokolamsk
Rzhev
Tver
Kalinin
Yaroslavl
Kostroma
Gorki
Kazan
Ulyanovsk
Saratov
Penza
Tambov
Voronezh
Kharkov
Poltava
Kremenchug
Dnepropetrovsk
Zaporozhye
Melitopol
Simferopol
Sevastopol
Yalta
Feodosia
Kerch
Taganrog
Rostov
Novocherkassk
Stavropol
Krasnodar
Maikop
Armavir
Pyatigorsk
Grozny
Makhachkala
Derbent
Baku
Kirovabad
Tiflis
Batum
Kutaisi
Sukhumi
Novorossiysk
Tuapse
Sochi
Gagra
Gudauta
Ochamchira
Poti
Zugdidi
Kobuleti
Batumi
Akhaltsikhe
Kars
Erzurum
Erzincan
Sivas
Tokat
Amasya
Samsun
Trabzon
Giresun
Ordu
Unye
Fatsa
Bafra
Çarşamba
Terme
Ankara
Eskişehir
Afyon
Konya
Adana
Tarsus
Mersin
Iskenderun
Antakya
Aleppo
Idlib
Hama
Homs
Tripoli
Beirut
Sidon
Tyre
Haifa
Acre
Nazareth
Tiberias
Safed
Jenin
Nablus
Ramallah
Jerusalem
Bethlehem
Hebron
Beersheba
Gaza
Rafah
El Arish
Port Said
Ismailia
Suez
Cairo
Giza
Alexandria
Rosetta
Damietta
Mansura
Tanta
Zagazig
Benha
Shibin el Kom
Menuf
Damanhur
Kafr el Dawar
Abu Hummus
Rosetta
Alexandria
Marsa Matruh
Sollum
Tobruk
Derna
Benghazi
Barce
Tocra
Apollonia
Cyrene
Ptolemais
Bardia
Sidi Barrani
Mersa Matruh
Siwa
Jaghbub
Jalo
Kufra
Kufra Oasis
Uweinat
Gilf Kebir
Abu Ballas
Dakhla
Kharga
Farafra
Bahariya
Baharia Oasis
Fayum
Beni Suef
Minya
Asyut
Sohag
Girga
Qena
Luxor
Esna
Edfu
Kom Ombo
Aswan
Abu Simbel
Wadi Halfa
Sarras
Dongola
Merowe
Abu Hamed
Berber
Atbara
Shendi
Omdurman
Khartoum
Khartoum North
Wad Medani
Sennar
Singa
Kosti
Rabak
El Obeid
Kadugli
Dilling
Talodi
Kurmuk
Damazin
Roseires
Abu Zabad
Babanusa
Muglad
Meiram
Abyei
Malakal
Renk
Kodok
Fashoda
Bor
Juba
Kapoeta
Torit
Nimule
Gondokoro
Rejaf
Yei
Maridi
Yambio
Tambura
Wau
Aweil
Raga
Meridi
Zemio
Obo
Nzara
Ezo

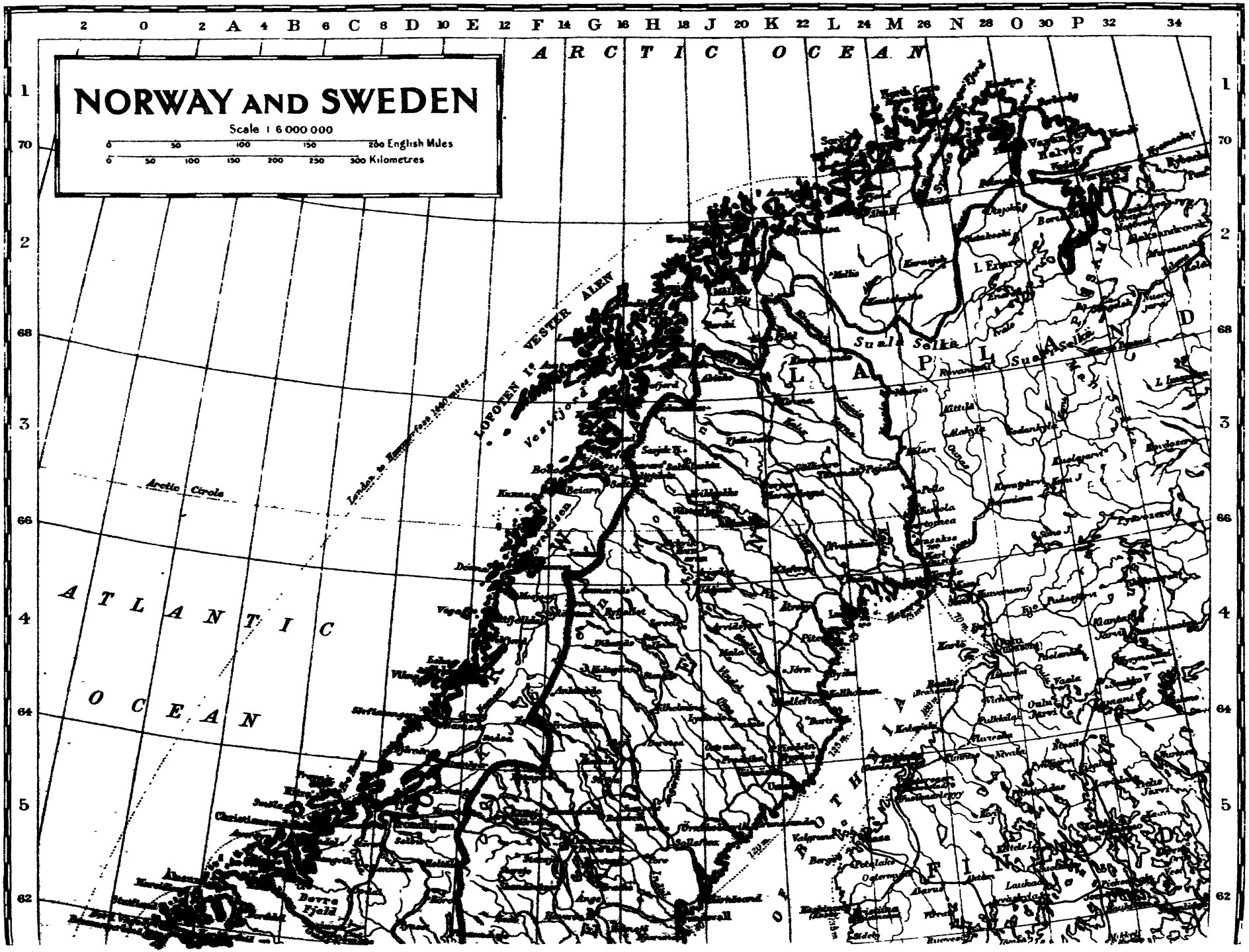

A 6 B 7 C 8 D 9 E 10 F
ZUIDER ZEE
HOLLAND
WESTPHALIA
HESSEN-
BELGIUM
PRUSSIA
LOWER FRANCONIA
LUXEMBOURG
SARRE
FRANCE
WURTEMBERG
STRASBOURG
1
52
2
51
3
50
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49
5

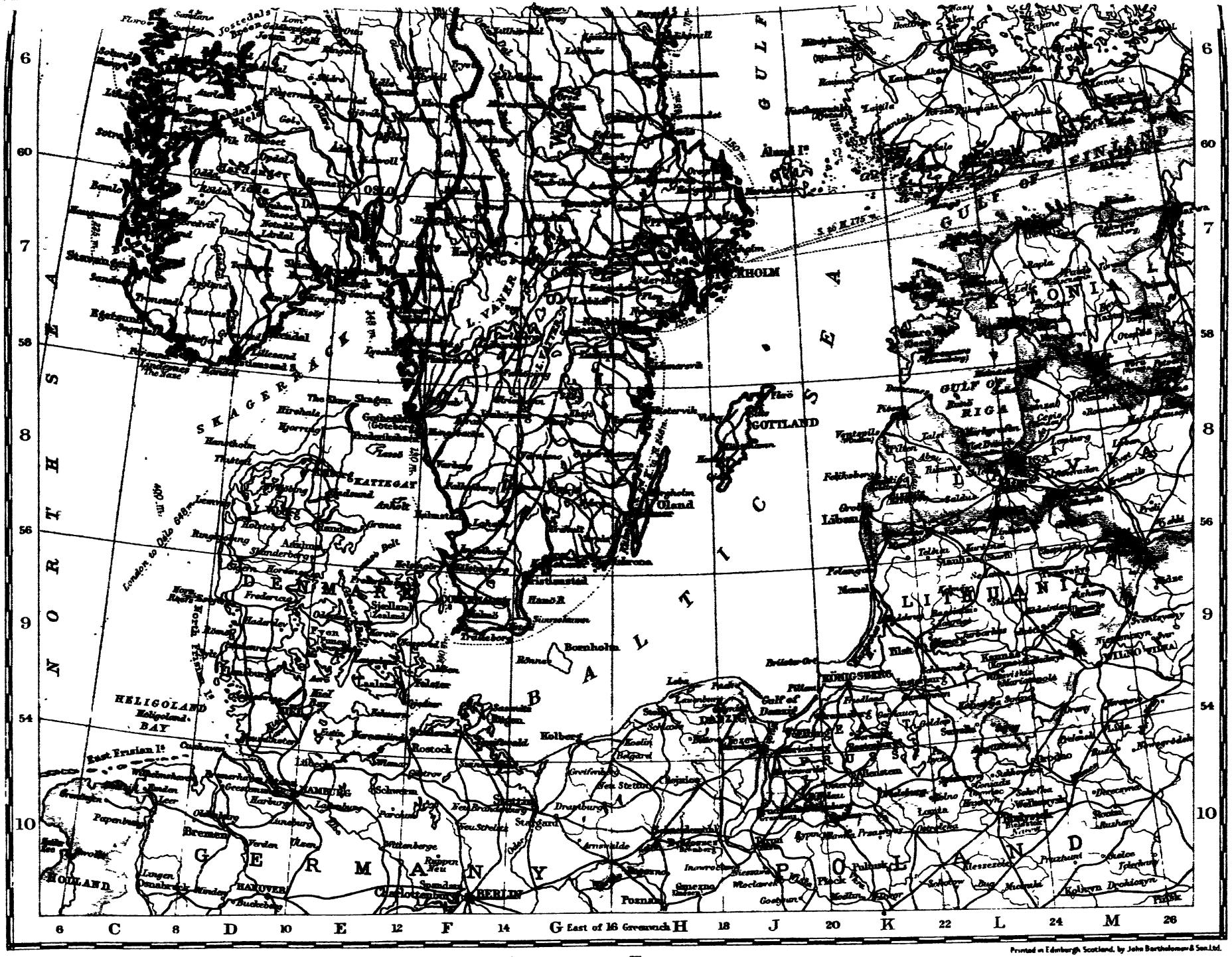


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A 14 B 16 C 18 D 20 E 22 F
1
54
2
52
3
50
4
48
5
SWEDEN
Bornholm
BALTIC SEA
Gulf of Danzig
Pomeranian Bay
Samland
Königsberg
POLAND
BERLIN
GERMANY
WARSZAWA
WARSAW
Lodz
Poznan
Breslau
Dresden
Leipzig
Lausitzer Neisse
Oder
Elbe
Saale
Moldau
Vltava
Danube
VIENNA
AUSTRIA
CZECHOSLOVAKIA
Tatra Mts.
Hohe Tatra
Bela Kalnica
Kosice
Miskolcz
HUNGARY
Nyiregyhaza
14 B 16 C 18 D 20 E Longitude East 22 of Greenwich F

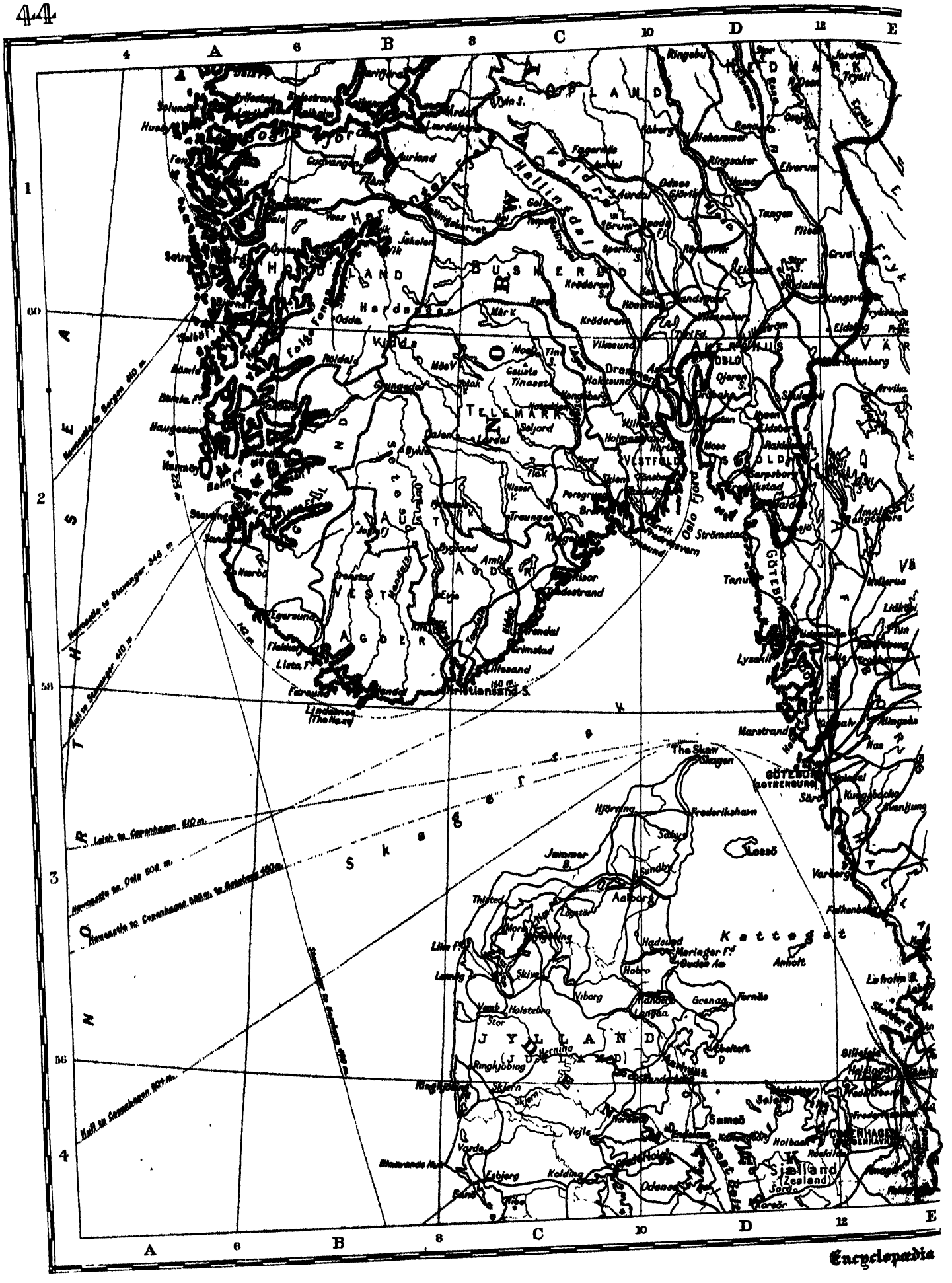

POLAND AND
EASTERN GERMANY
Scale 1:3,800,000
0 10 20 30 40 50 60 70 80 90 100 English Miles
0 20 40 60 80 100 120 140 160 Kilometres
24 G 26 28 J 30 K 32 L 34
1 54 2 52 3 50 4 48 5
LITHUANIA
POLSKA
WHITE RUSSIA
RUSSIA
UKRAINE
RUMANIA
Kaunas
Vilnius
Minsk
Brest
Grodno
Bialystok
Lida
Baranovichi
Pinsk
Gomel
Mogilev
Smolensk
Vitebsk
Orsha
Kiev
Chernigov
Zhitomir
Kovel
Lutsk
Rovno
Tarnopol
Stanislawow
Kolomyja
Chernovtsy
Jassy
Vaslui
Galati
Braila
Reni
Ismail
Cernauti
Dorohoi
Botosani
Suceava
Roman
Bacau
Focsani
Buzau
Ploiesti
Bucharest
Giurgiu
Turnu Severin
Craiova
Slatina
Pitesti
Arges
Dambovita
Ialomita
Prahova
Buzau
Braila
Tulcea
Constanta
Calarasi
Ilfov
Vlasca
Teleorman
Olt
Dolj
Mehedinti
Gorj
Valcea
Romanati
Olt
Arges
Muscel
Dambovita
Ialomita
Prahova
Buzau
Vrancea
Galati
Tecuci
Putna
Covurlui
Tutova
Vaslui
Iasi
Neamt
Bacau
Roman
Suceava
Botosani
Dorohoi
Cernauti
Hotin
Soroca
Balti
Orhei
Lapusna
Kishinev
Cahul
Ismail
Reni
Izmail
Kilia
Akkerman
Tighina
Dubossary
Rybnitsa
Slobodzeya
Tiraspol
Beltsy
Edineti
Soroca
Orgeyev
Kishinev
Lapusna
Cahul
Comrat
Vulcanesti
Leova
Cantemir
Taraclia
Basarabeasca
Ceadir-Lunga

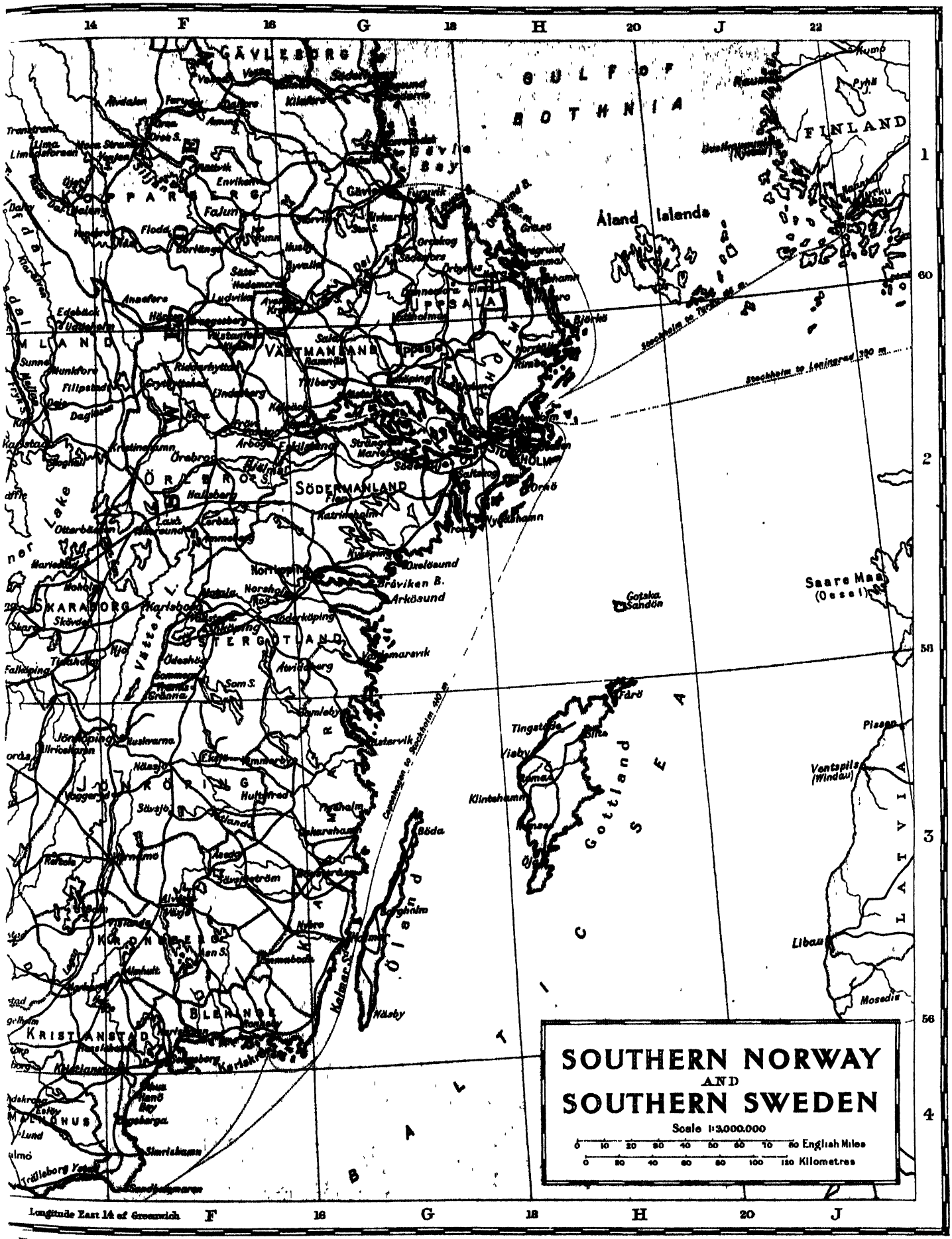

NORWAY AND SWEDEN
Scale 1 6 000 000
0 50 100 150 200 English Miles
0 50 100 150 200 250 300 Kilometres
ARCTIC OCEAN
ATLANTIC OCEAN
Arctic Circle
LOFOTEN I.
VESTER ALEN
Vestfjord
London to Hammerfest 1460 miles
Stockholm
Bergen
Oslo
Trondheim
Narvik
Kiruna
Gällivare
Luleå
Umeå
Sundsvall
Östersund
Karlstad
Göteborg
Malmö
Helsingborg
Kristiansand
Stavanger
Haugesund
Ålesund
Molde
Kristiansund
Bodø
Mo
Mosjöen
Sandnessjöen
Hemnesberget
Mosjöen
Mo
Hammerfest
Alta
Kautokeino
Karasjok
Kirkenes
Vardø
Vadsø
Tromsø
Harstad
Finnmarken
Lappland
Suomi Selkä
Sue Aselkä
L. Enare
Torne Träsk
Torneå
Haparanda
Kemi
Rovaniemi
Kemijärvi
Sodankylä
Inari
Ivalo
Pello
Kolari
Muonio
Kittilä
Enontekis
Kilpisjärvi
Jukkasjärvi
Gällivare
Arjeplog
Arvidsjaur
Jokkmokk
Vilhelmina
Storuman
Sorsele
Dorotea
Lycksele
Vindeln
Vännäs
Nordmaling
Örnsköldsvik
Kramfors
Hudiksvall
Söderhamn
Gävle
Sandviken
Falun
Borlänge
Mora
Leksand
Rättvik
Orsa
Älvdalen
Idre
Särna
Transtrand
Malung
Sälen
Hedemora
Avesta
Fagersta
Ludvika
Smedjebacken
Säter
Borlänge
Gagnef
Mora
Orsa
Rättvik
Leksand
Falun
Sandviken
Gävle
Hudiksvall
Söderhamn
Bollnäs
Ljusdal
Ånge
Härnösand
Sundsvall
Timrå
Kramfors
Örnsköldsvik
Nordmaling
Vännäs
Vindeln
Lycksele
Dorotea
Vilhelmina
Storuman
Sorsele
Arvidsjaur
Arjeplog
Jokkmokk
Gällivare
Jukkasjärvi
Kiruna
Torneå
Haparanda
Kemi
Rovaniemi
Kemijärvi
Sodankylä
Inari
Ivalo
Pello
Kolari
Muonio
Kittilä
Enontekis
Kilpisjärvi
Karasjok
Kautokeino
Alta
Hammerfest
Vardø
Vadsø
Kirkenes
Tromsø
Harstad
Narvik
Bodø
Mo
Mosjöen
Sandnessjöen
Hemnesberget
Mosjöen
Mo
Kristiansund
Molde
Ålesund
Haugesund
Stavanger
Kristiansand
Göteborg
Malmö
Helsingborg
Oslo
Bergen
Trondheim
Stockholm
Karlstad
Östersund
Sundsvall
Luleå
Umeå
Gällivare
Kiruna
Narvik



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NORWAY
SWEDEN
DENMARK
Skagerrak
Kattegat
Oslo fjord
Hardangerfjord
Hallingdal
Valdres
Gudbrandsdal
Numedal
Telemark
Aust Agder
Vest Agder
Hordaland
Rogaland
Buskerud
Oppland
Vestfold
Oslo
Akershus
Østfold
Jylland
Sjælland
Zealand
Fyn
Læsø
Samsø
Anholt
Skagen
The Skaw
Hirtshals
Frederikshavn
Aalborg
Viborg
Esbjerg
Kolding
Vejle
Horsens
Aarhus
Randers
Grenaa
Hobro
Thisted
Lemvig
Skive
Ringkjøbing
Ringkøbing
Holstebro
Herning
Silkeborg
Skjern
Varde
Ribe
Odense
Svendborg
Nyborg
Korsør
Kalundborg
Slagelse
Ringsted
Roskilde
Holbæk
Copenhagen
Helsingør
Helsingborg
Landskrona
Malmö
Lund
Ystad
Trelleborg
Kristiansand S.
Arendal
Grimstad
Lillesand
Mandal
Farsund
Flekkefjord
Egersund
Stavanger
Sandnes
Haugesund
Karmsund
Bokn Fj.
Boknafjord
Skudenes
Utsira
Lista Fl.
Lindesnes (The Naze)
Jæren
Dalane
Ryfylke
Sunnhordland
Hardangerfjord
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Odda
Ullensvang
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Hardangerjøkulen
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Vossevangen
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Granvin
Ulvik
Eksingedal
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Vikna
Nærøysund
Rana
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Vefsn
Helgeland
Vesterålen
Lofoten
Svolvær
Narvik
Tromsø
Hammerfest
Kvalø
Vardø
Kirkenes
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Shetland Islands
Orkney Islands
Aberdeen
Peterhead
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Wick
Pentland Firth
Scapa Flow
Kirkwall
Stromness
Lerwick
Fair Isle
Muckle Flugga
Cape Wrath
Stornoway
Lewis
Harris
Skye
Inverness
Moray Firth
Caledonian Canal
Loch Ness
Fort William
Ben Nevis
Oban
Mull
Iona
Tobermory
Islay
Jura
Gigha
Kintyre
Mull of Kintyre
Ardrossan
Ayr
Stranraer
Glasgow
Edinburgh
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Firth of Forth
Firth of Clyde
Firth of Tay
Dundee
Arbroath
Montrose
Stonehaven
Peterhead
Fraserburgh
Banff
Buckie
Lossiemouth
Elgin
Forres
Nairn
Inverness
Kyle of Lochalsh
Skye
Portree
Broadford
Mallaig
Fort William
Oban
Campbeltown
Ardrossan
Ayr
Girvan
Stranraer
Glasgow
Edinburgh
Leith
Dundee
Arbroath
Montrose
Stonehaven
Aberdeen



SOUTHERN NORWAY AND SOUTHERN SWEDEN

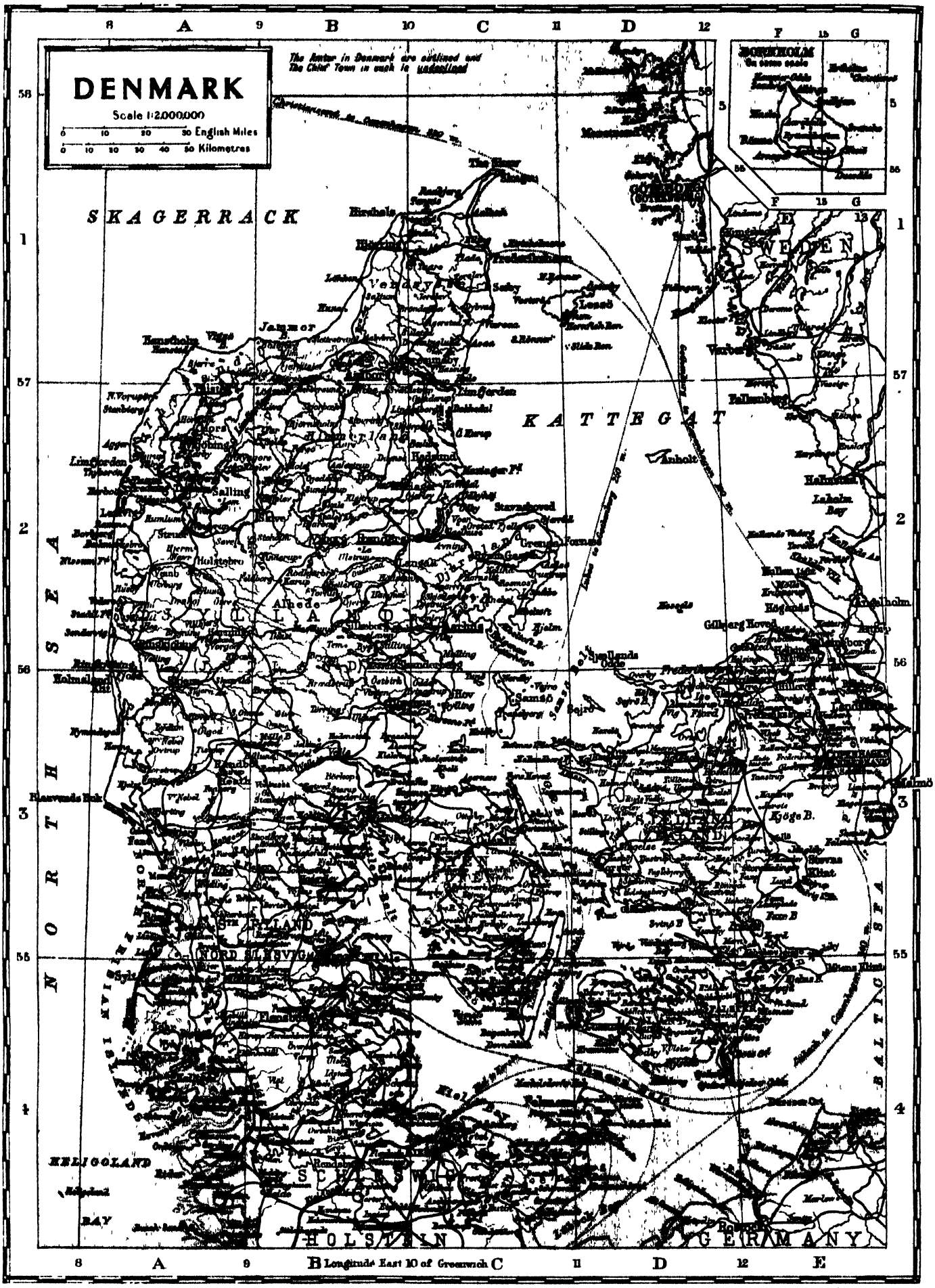
Scale 1:3,000,000

0 10 20 30 40 50 60 70 80 English Miles

0 20 40 60 80 100 120 Kilometres

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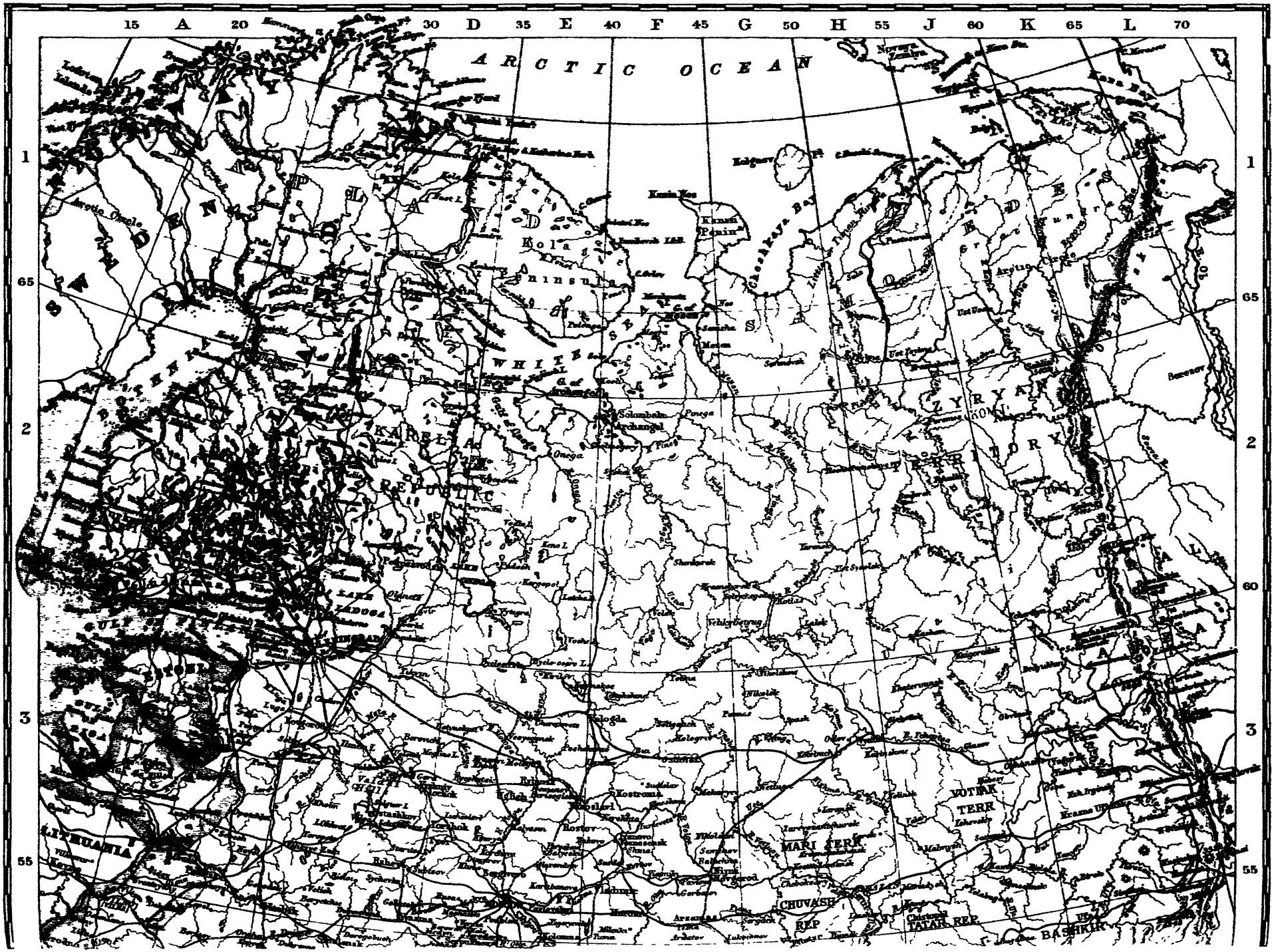


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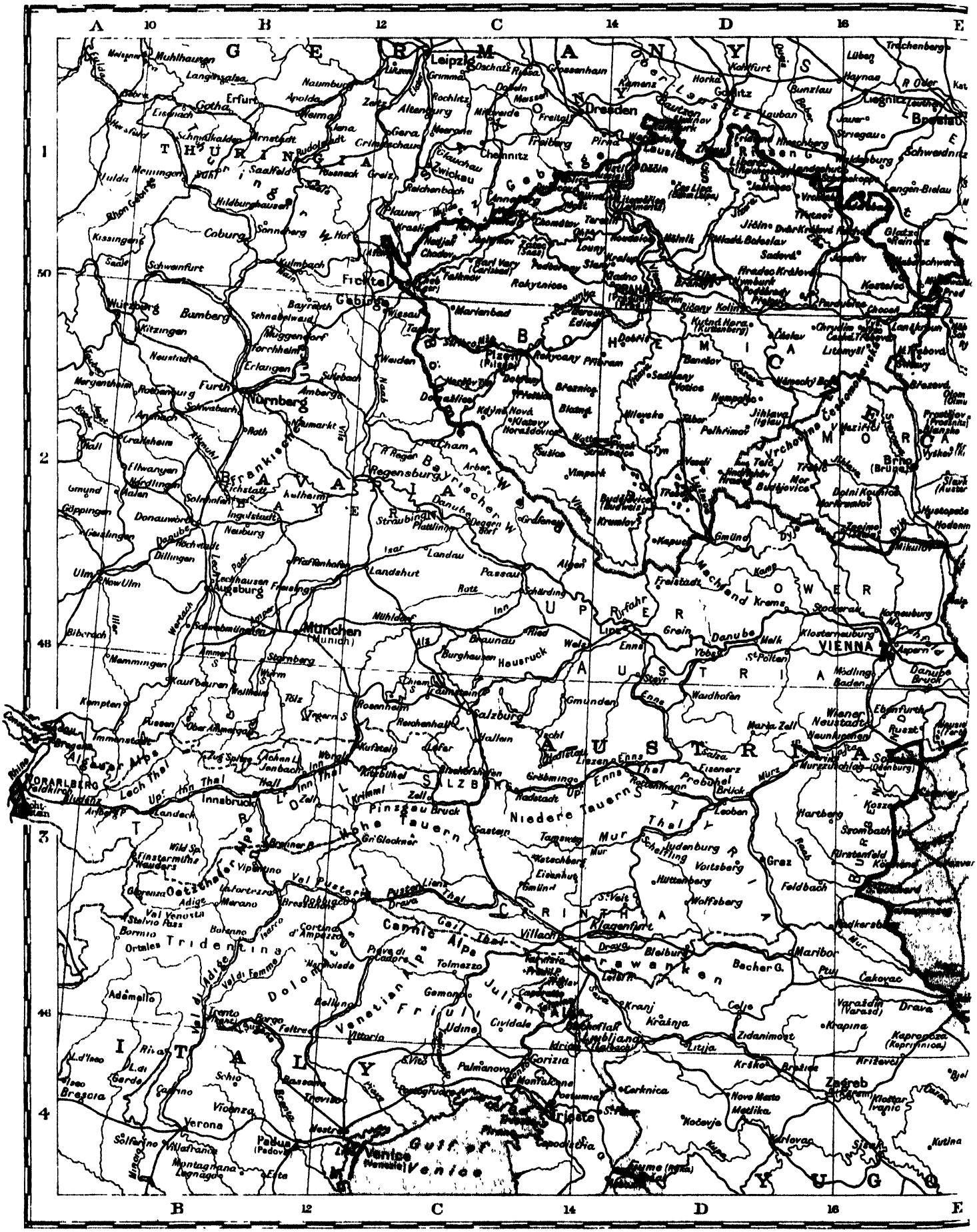
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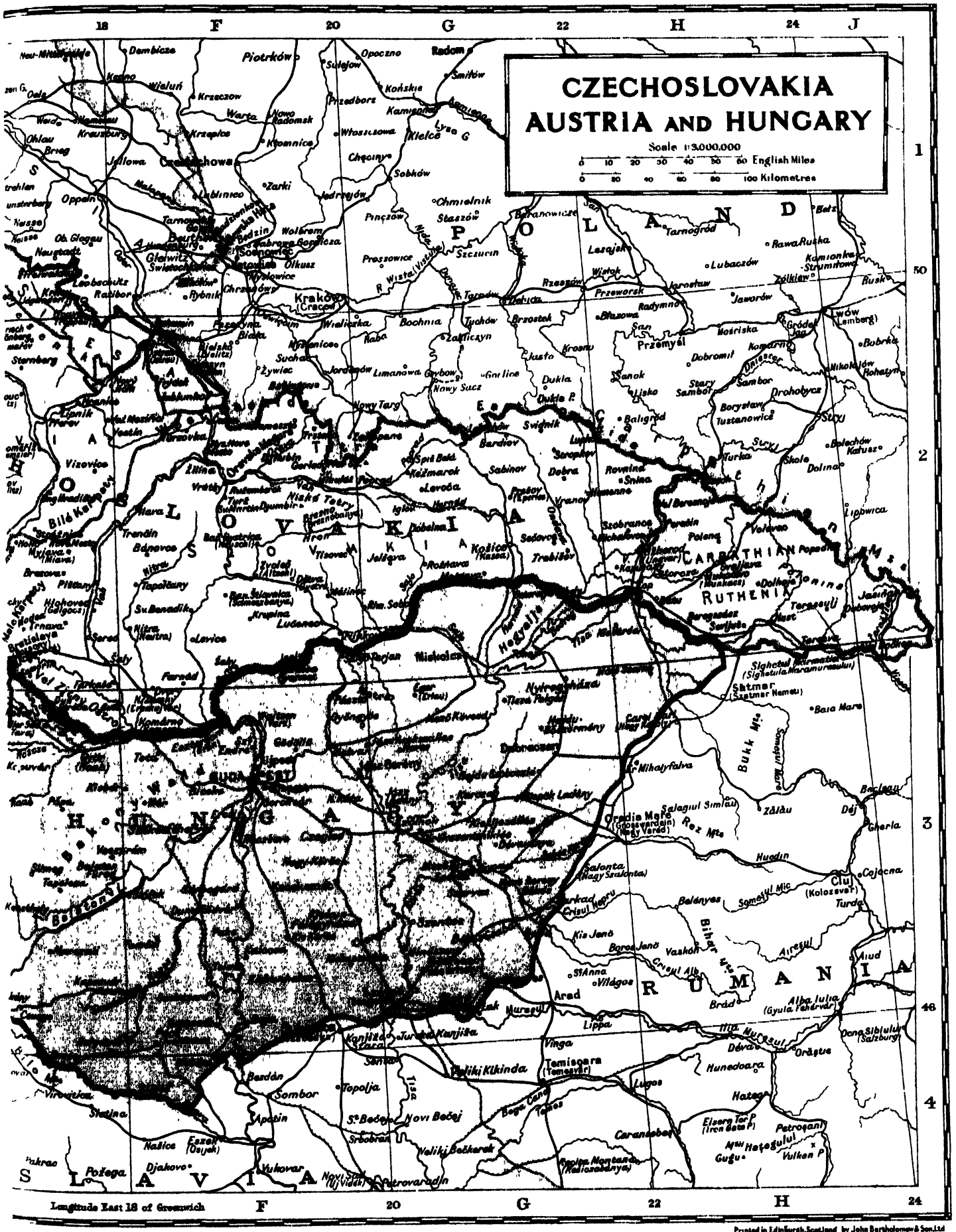

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ARCTIC OCEAN
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Archangel
Onega
LAKE LADOGA
GULF OF FINLAND
LITHUANIA
Vologda
Kostroma
Rostov
Yaroslavl
MARI TERR
VOTIAK TERR
CHUVASH REP
TATAR REP
BASHKIR
ZYRYAN KOMI TERRITORY



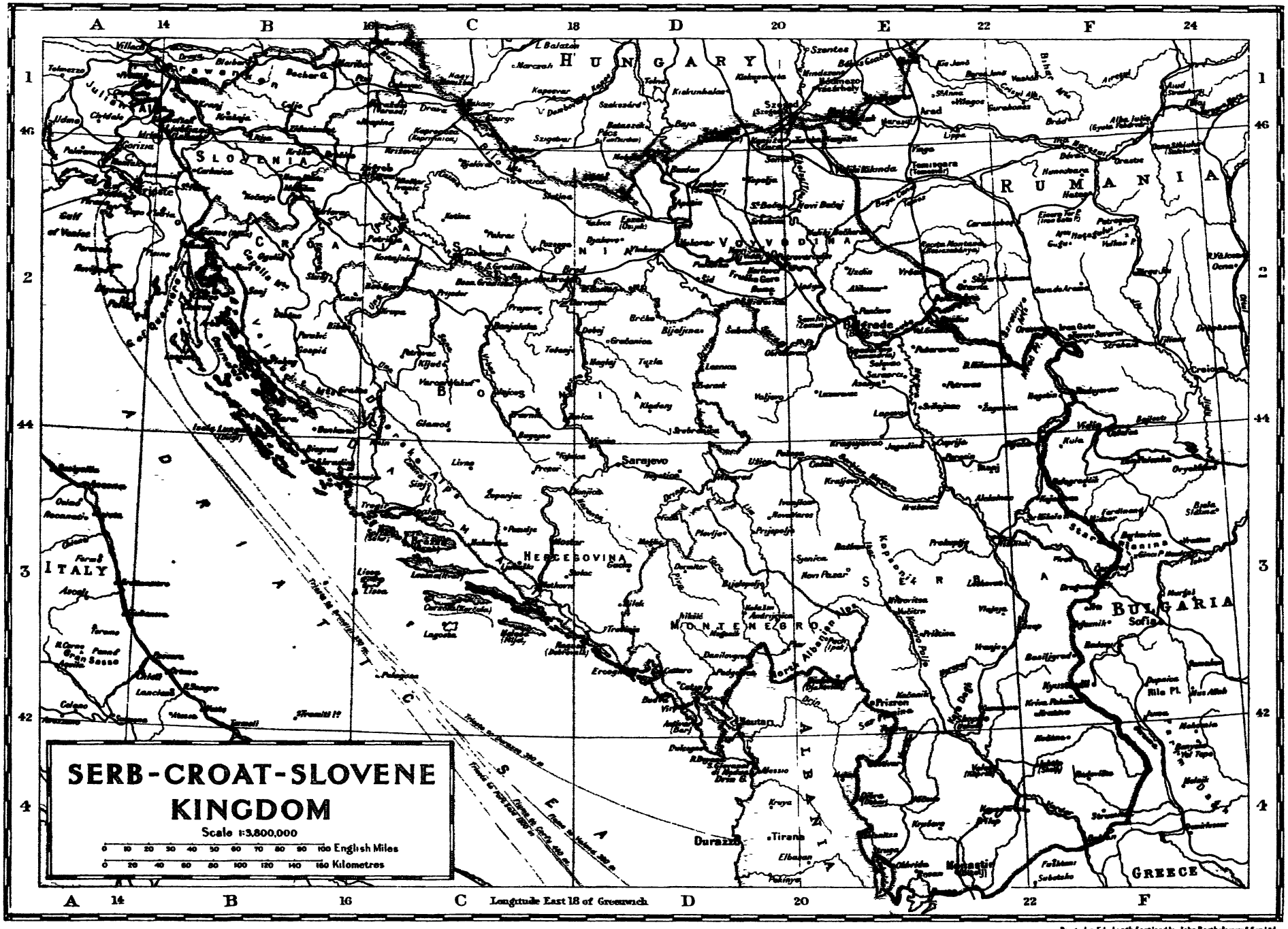
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GERMANY
Leipzig
Dresden
Breslau
THURINGIA
Erfurt
Gotha
Coburg
Fichtelgebirge
Bayreuth
Wurzburg
Bamberg
Nurnberg
Furth
Ansbach
Rothenburg
Crailsheim
Hall
Aalen
Heidenheim
Ellwangen
Gmund
Gopplingen
Donauworth
Neuburg
Ingolstadt
Regensburg
Straubing
Deggendorf
Landshut
Passau
Dillingen
Ulm
Augsburg
Munchen (Munich)
Rosenheim
Salzburg
Kufstein
Innsbruck
Landeck
Pinzgau
Pongau
Niedere Tauern
Hohe Tauern
Grossglockner
Brenner P.
Finstermunz P.
Reschen P.
Ortler
Adamello
Bormio
Merano
Bolzano
Trento
Riva
Garda
Brescia
Verona
Vicenza
Padua (Padova)
Venice (Venezia)
Gulf of Venice
Trieste
Gorizia
Udine
Cividale
Tolmezzo
Cortina d'Ampezzo
Carnic Alps
Villach
Klagenfurt
Drau
Maribor
Ptuj
Celje
Ljubljana
Kranj
Zagreb
Karlovac
Sisak
Varazdin (Varasd)
Krapina
Kaprivnica
Bjelovar
Osijek
Vinkovci
Vukovar
Slavonski Brod
Sarajevo
Mostar
Metkovic
Dubrovnik
Ragusa
Kotor
Cattaro
Cetinje
Scutari
Durazzo
Valona
Corfu
Ionian Sea
Adriatic Sea
Gulf of Venice
Lake Garda
Lake Constance
Bregenz
Feldkirch
Arlberg P.
Lech Thal
Inn Thal
Salzach Thal
Enns Thal
Mur Thal
Drau Thal
Puster Thal
Gail Thal
Etsch Thal
Adige
Isar
Lech
Inn
Salzach
Enns
Mur
Drau
Danube
Rhine
Main
Neckar
Saale
Elbe
Moldau
Eger
Iser
Neisse
Oder
Bohemia
Moravia
Prague
Pilsen
Karlsbad
Marienbad
Budweis
Brunn
Olmutz
Iglau
Znaim
Vienna
Wiener Neustadt
Baden
Modling
Brunn
Stockerau
Klosterneuburg
Krems
Linz
Steyr
Wels
Braunau
Ried
Salzburg
Hallein
Reichenhall
Berchtesgaden
Zell am See
Kufstein
Rosenheim
Traunstein
Ebensee
Gmunden
Ischl
Aussee
Hallstatt
Leoben
Bruck
Graz
Judenburg
Knittelfeld
Murzzuschlag
Neunkirchen
Wartberg
Kirchdorf
Steyr
Amstetten
Melk
St. Polten
Lilienfeld
Mariazell
Eisenerz
Prebichl
Radstadt
Tauern Railway
Semmering
Schneeberg
Wechsel
Hochschwab
Dachstein
Totes Gebirge
Salzkammergut
Wolfsberg
Voitsberg
Hartberg
Feldbach
Fürstenfeld
Radkersburg
Mur
Drau
Sava
Save
Kulpa
Una
Vrbas
Bosna
Drina
Lim
Ibar
Morava
Vardar
Struma
Maritza
Black Sea
Aegean Sea
Constantinople
Adrianople
Salonica
Monastir
Uskub
Nish
Belgrade
Semlin
Peterwardein
Mohacs
Pecs
Fiume (Rijeka)
Sisak
Karlovac
Ogulin
Gospic
Knin
Sebenico
Spalato
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Curzola
Ragusa
Cattaro
Scutari
Durazzo
Valona
Corfu
Ionian Sea
Adriatic Sea
B 12 C 14 D 16 E

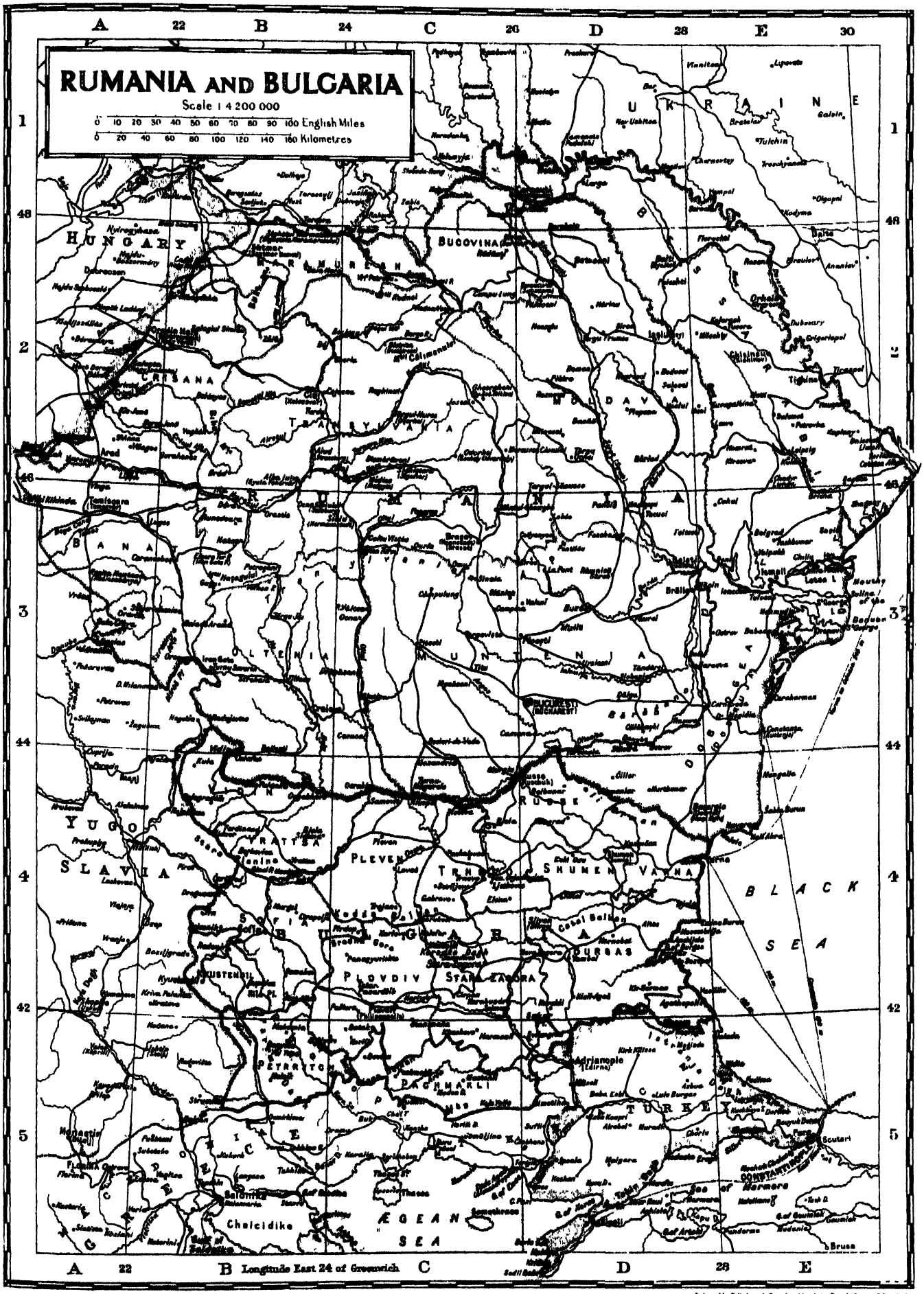


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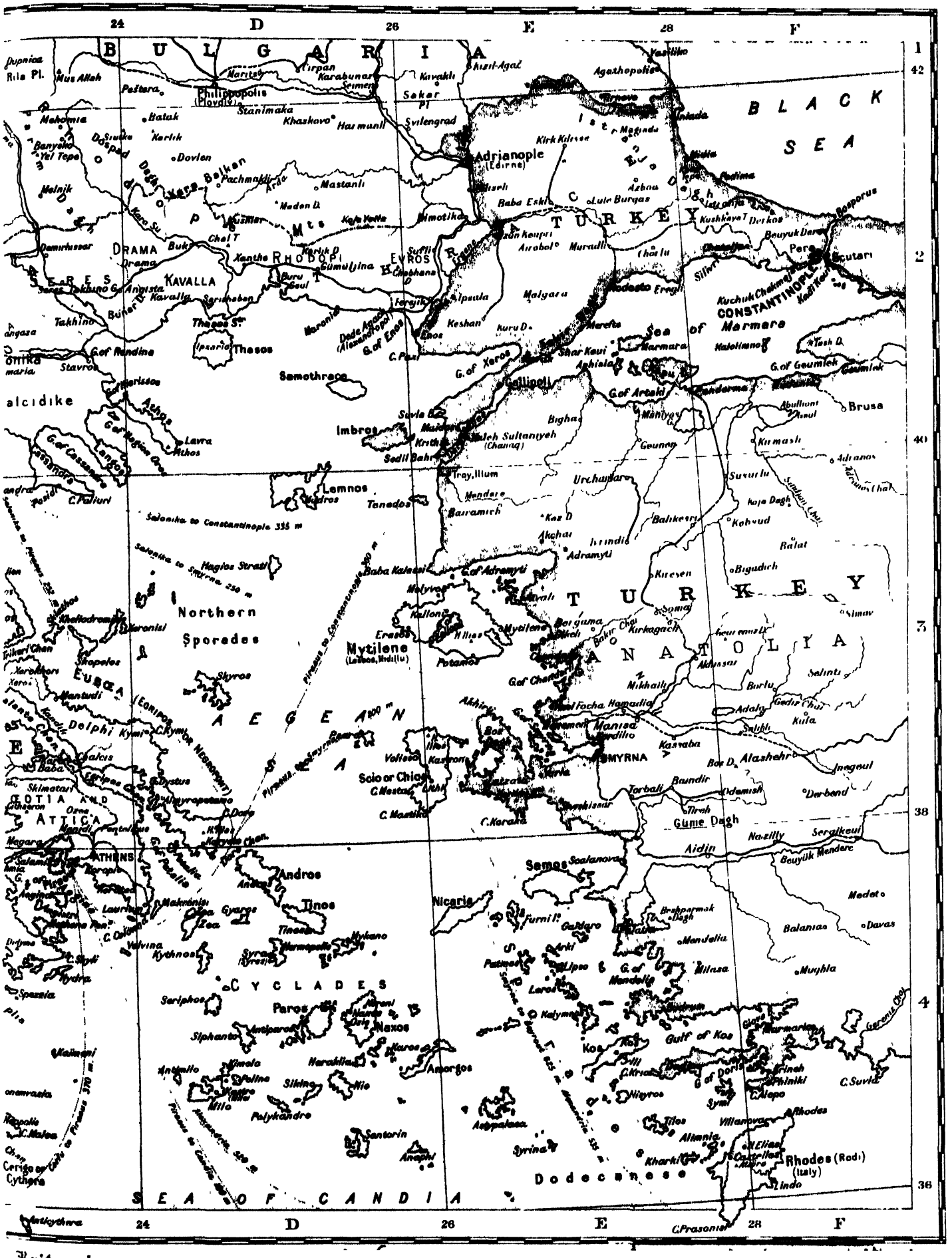
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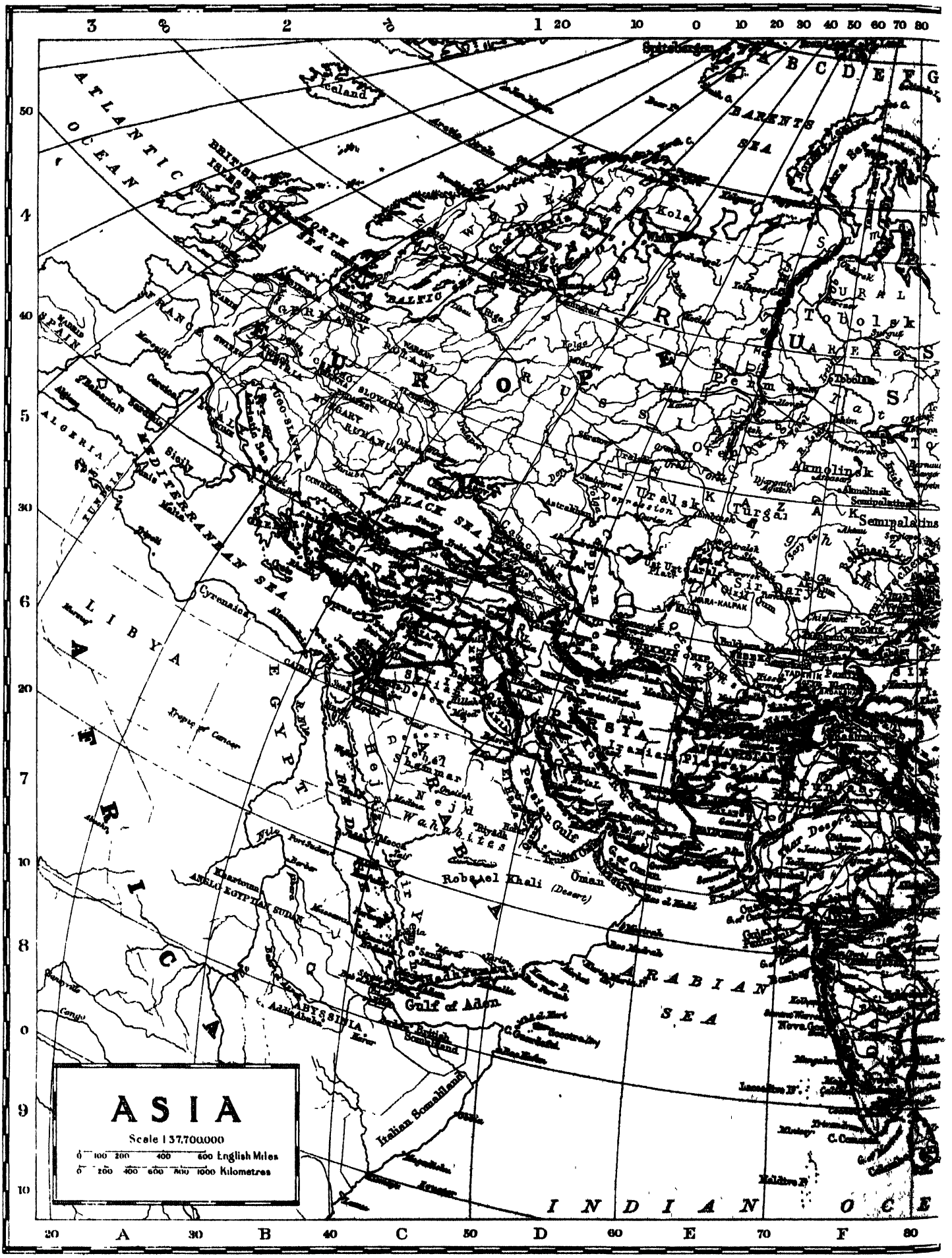


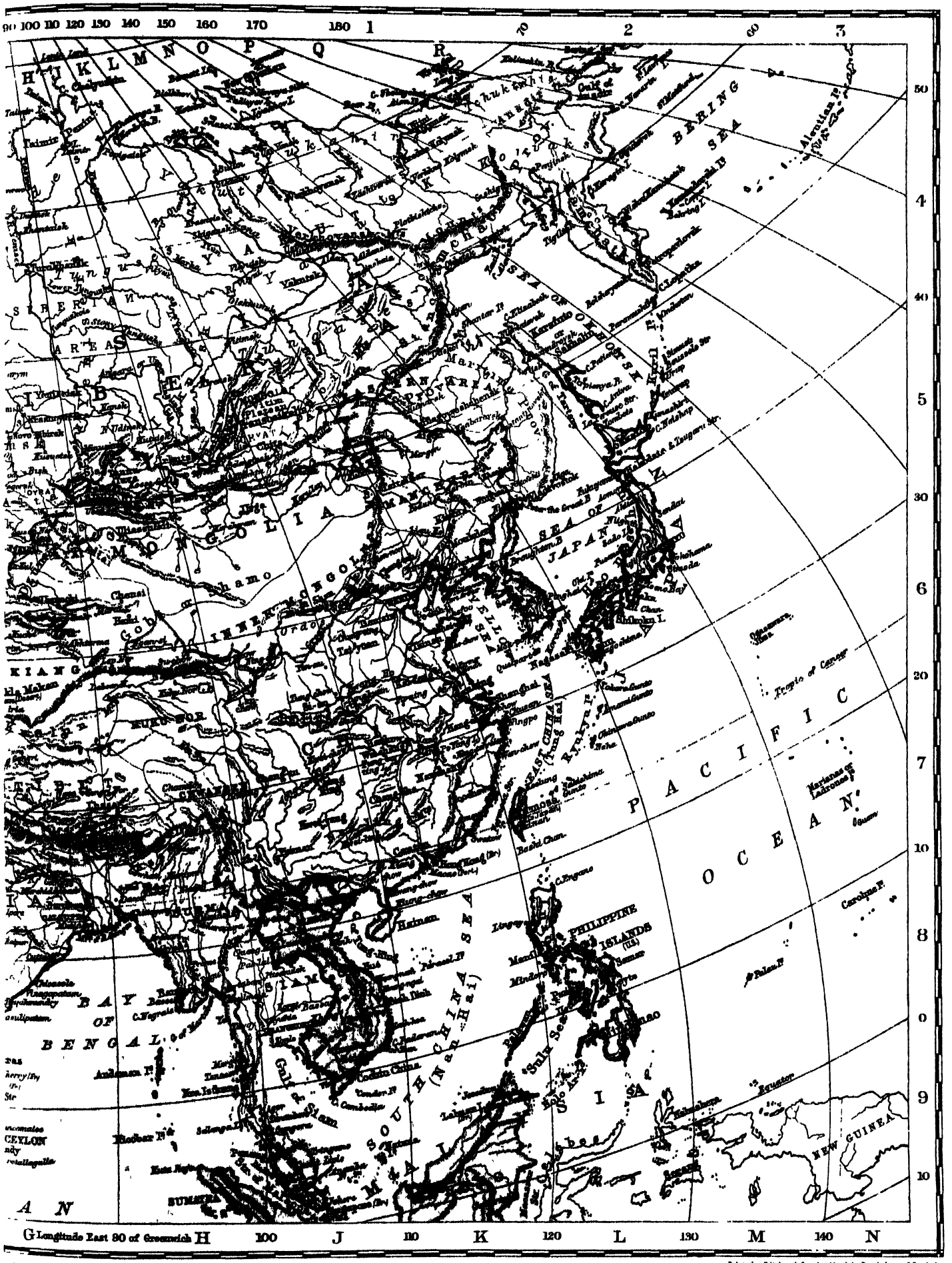
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GREECE
AND ALBANIA
Scale 1:3,000,000
0 10 20 30 40 50 60 English Miles
0 20 40 60 80 ion Kilometres
ADRIATIC SEA
IONIAN SEA
SEA OF CANDIA
CRETE OR CANDIA (KIRID)
YUGO-SLAVIA
ITALY
GREECE
Durazzo
Prizren
Monastir
Florina
Kozani
Yannina
Trikkala
Larissa
Arta
Preveza
Acarnania and Aetolia
Phthiotis and Phocis
Achaia
Corinthia
Elis
Arcadia
Messenia
Laconia
Argolis
Corfu (Kerkyra)
Cephalonia (Kephallenia)
Zante (Zacynthos)
Scarpanto (Karpathos)
Canea
Rethymno
Heraclion
Sphakia
Lasithi
Messara B.
On the same scale
Longitude East 22 of Greenwich

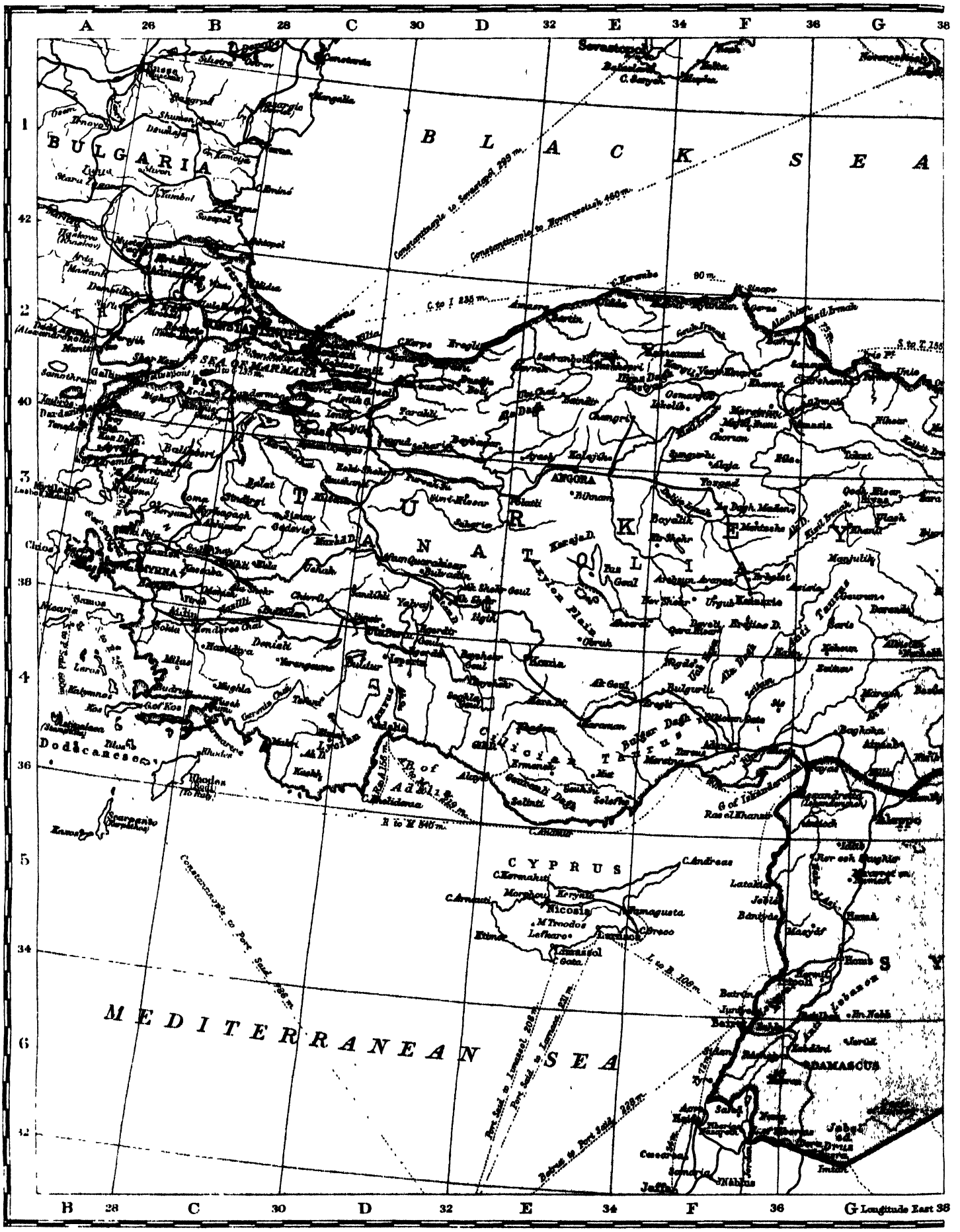

24
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42
40
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38
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36
BULGARIA
BLACK SEA
TURKEY
ANATOLIA
AEGEAN SEA
SEA OF CANDIA
SEA of Marmara
Adrianople (Edirne)
CONSTANTINOPLE
Philippopolis (Plovdiv)
Mytilene (Lesbos, Midilli)
Lemnos
Samothrace
Imbros
Tenedos
Thasos
Scio or Chios
SMYRNA
Rhodes (Rodi) (Italy)
Dodecanese
Cyclades
Northern Sporades
ATHENS
Delphi
Paros
Naxos
Andros
Tinos
Amorgos
Santorin
Nicaria
Samos
Kos
Gulf of Kos
Gulf of Xeros
Gulf of Adramyti
Gulf of Artaki
Gulf of Smyrna
Gulf of Mandelia
Gulf of Doris
Gulf of Orfano
Gulf of Kavalla
Gulf of Rendina
Gulf of Lamia
Gulf of Patras
Gulf of Corinth
Gulf of Geumlek
Gulf of Cassandra
Gulf of Salonika
Gallipoli
Brusa
Pera
Scutari
Bosporus
Dardanelles
Mt Olympus
Mt Ossa
Mt Pelion
Mt Parnassus
Mt Helicon
Mt Cithaeron
Mt Parnes
Mt Hymettus
Mt Pentelicus
Mt Aenos
Mt Ida
Mt Kara Dagh
Mt Gume Dagh
Mt Messogis
Mt Latmos
Mt Mycale
Mt Phocaea
Mt Sipylus
Mt Dindymus
Mt Olympus
Mt Athos
Mt Pangaeus
Mt Rhodope
Mt Kerdylion
Mt Menoikion
Mt Orbelos
Mt Vitosha
Mt Rila
Mt Musalla
Mt Pirin
Mt Kamenitza
Mt Belasitza
Mt Dospat
Mt Perim Dagh
Mt Kara Dagh
Mt Kara Su
Mt Kara Yatta
Mt Kara Burun
Mt Kara Kaya
Mt Kara Tash
Mt Kara Tepe
Mt Kara Dere
Mt Kara Bel
Mt Kara Bel
Mt Kara Bel


ASIA
Scale 1:37,700,000
0 100 200 400 600 English Miles
0 200 400 600 800 1000 Kilometres
ATLANTIC OCEAN
ARCTIC OCEAN
BARENTS SEA
BLACK SEA
MEDITERRANEAN SEA
RED SEA
Persian Gulf
Gulf of Aden
ARABIAN SEA
INDIAN OCEAN
Iceland
BRITISH ISLES
NORTH SEA
BALTIC
GERMANY
FRANCE
SPAIN
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TUNISIA
Sicily
Malta
Cyrenaica
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Tropic of Cancer
Khartoum
ANGLO EGYPTIAN SUDAN
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Italian Somaliland
Kenya
Congo
Nile
Suez Canal
Kola
Tobolsk
Permsk
Ural Mts.
Ural R.
Aralsk
Turgai
Semipalatinsk
Akmolinsk
Sir Darya
Aral Sea
Caspian Sea
Hejaz
Nejd
Wahabites
Rub-el Khali (Desert)
Oman
Kerman
Afghanistan
Persia
Turkestan
Russia
Siberia
Kirghiz Steppe
Kara-Kalpak
Tadjik
Pamir
Kashgar
Yarkand
Khotan
Lop Nor
Gobi Desert
Tibet
Himalaya Mts.
Lhasa
Brahmaputra R.
Ganges
Indus
Baluchistan
Arabia
Yemen
Hadramaut
Maldive Is.
Laccadive Is.
Nicobar Is.
Andaman Is.
Sumatra
Java
Borneo
Celebes
Timor
New Guinea
Australia
Tropic of Capricorn
Equator
Encyclopædia



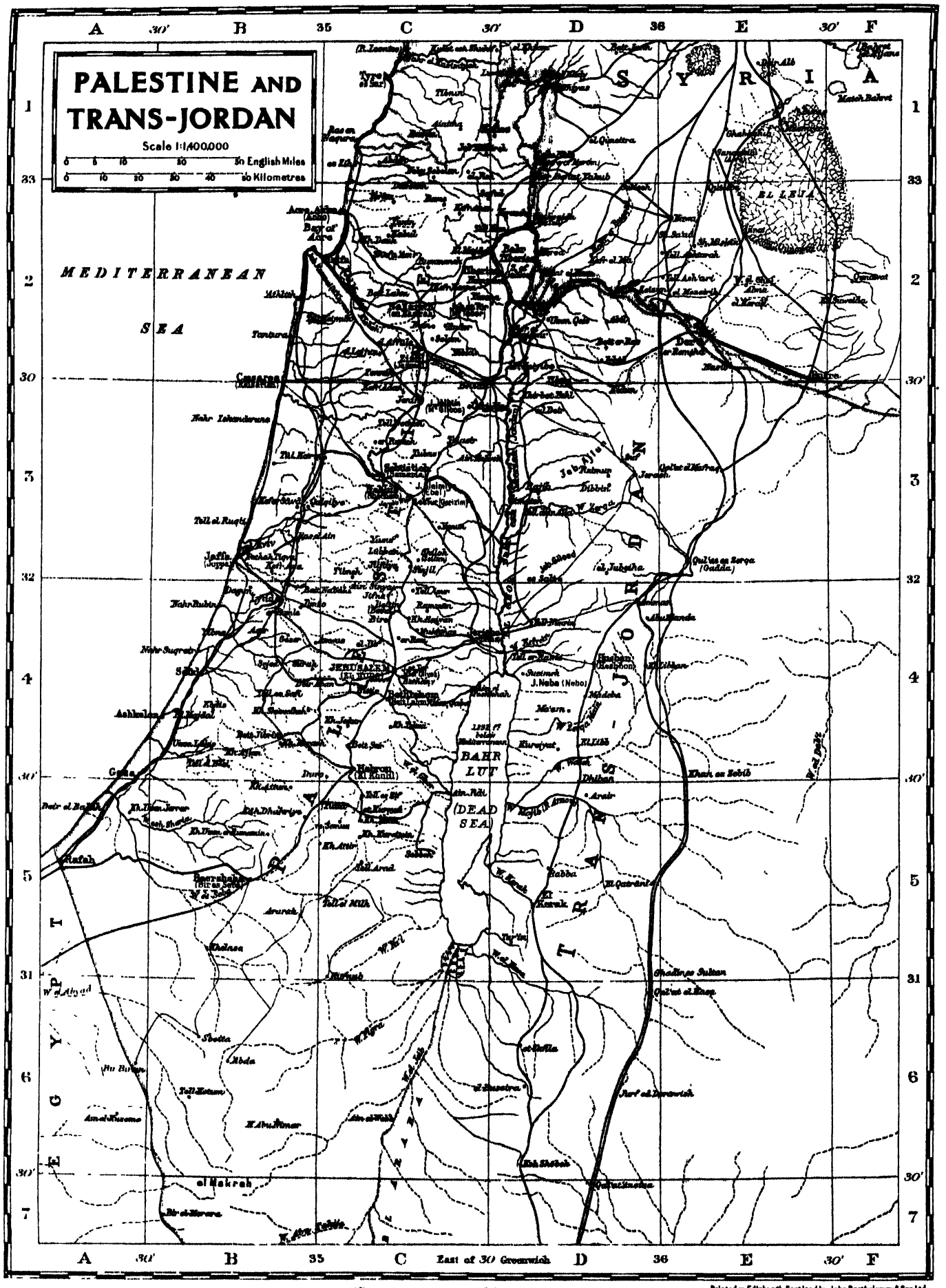
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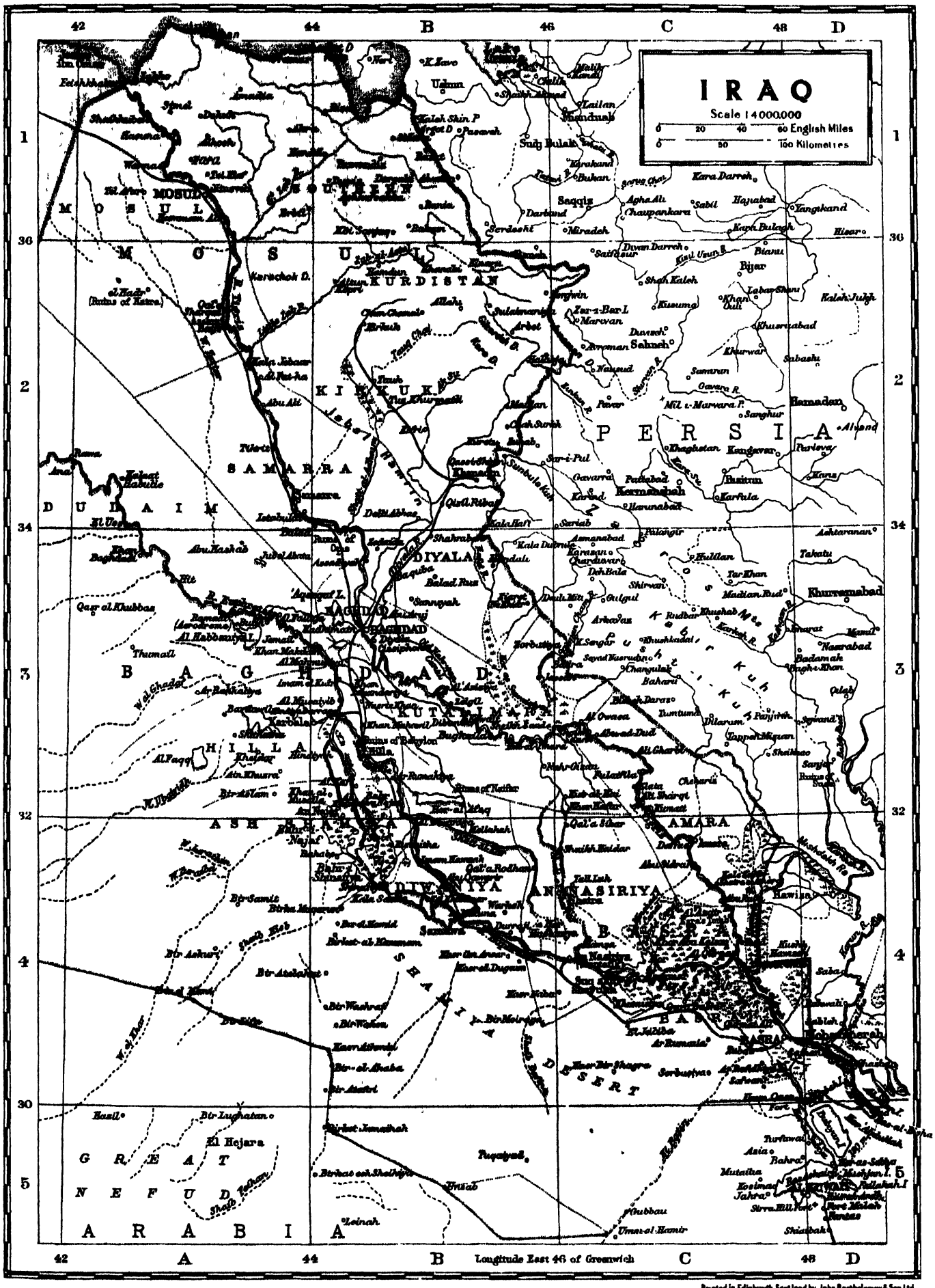
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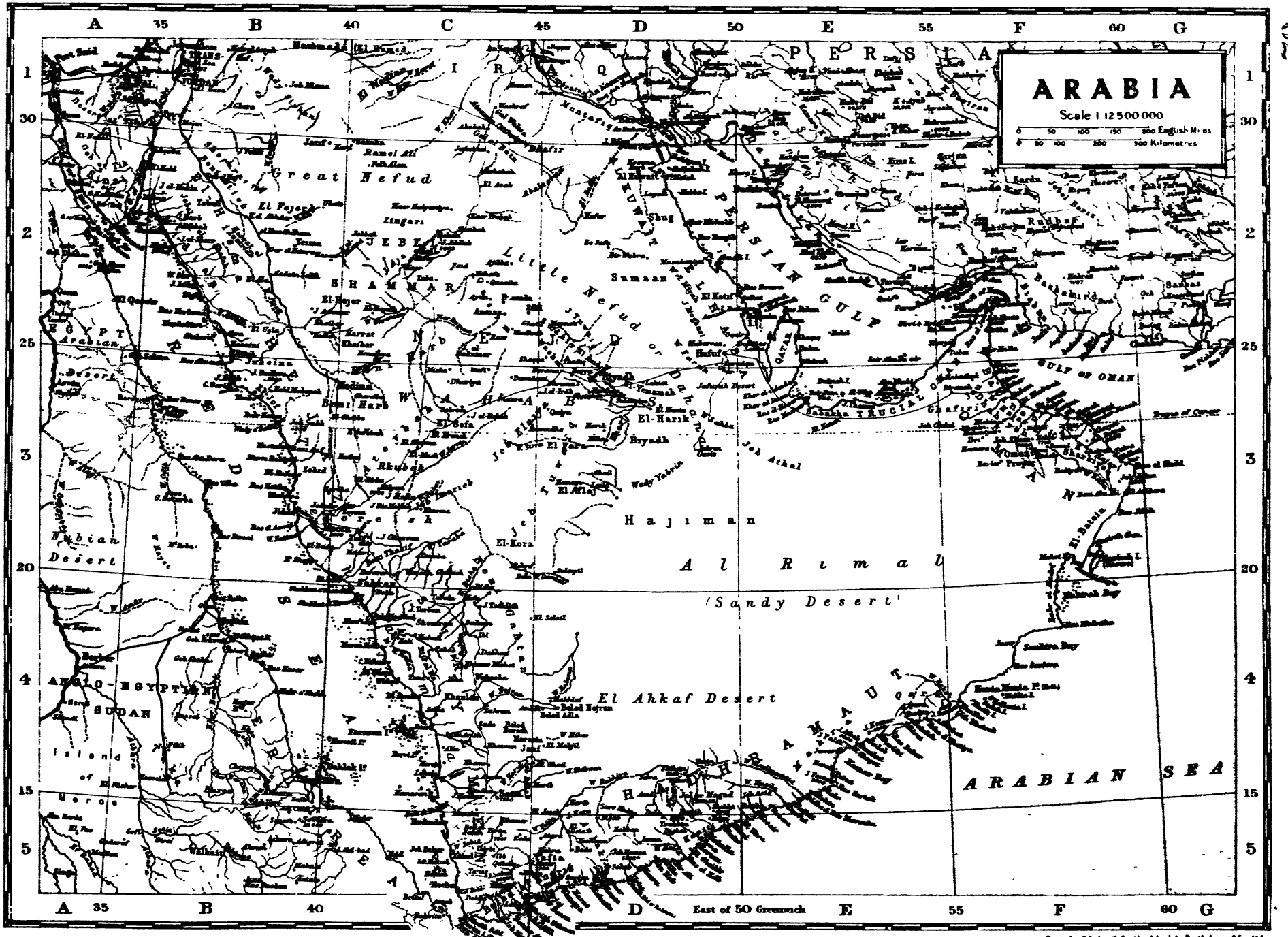

TURKEY
TRANSCAUCASIA
AND SYRIA
Scale 1 6,000,000
0 50 100 150 English Miles
0 50 100 150 200 250 Kilometres
Greenwich
H 40 J 42 K 44 L 46 M 48 N 50 O
1 2 3 4 5 6
32 34 36 38 40 42
CASPIAN SEA
PERSIA
Hamadan
Karmanshah
Tabriz
Resht
Ardabil
Kirkuk
Mosul
BAGHDAD
Ctesiphon
Babylon
Hilla
Karbala
Samarra
Tikrit
Khanaqin
Sulaka
Saqqiz
Sahneh
Ajbet
Miandoab
Maragha
Sahand
Turkmanchai
Meshk
Julamerk
Hakkari
Van
Bitlis
Mush
Diyarbekir
Mardin
Nisibin
Urfa
Harran
Palmyra
Deir es Zor
Haditha
Hit
Ramadi
Al Habbaniya
Al Falluja
Khan Baghdadi
Bir Melosa
Syrian Desert
Jabal Hamrin
Shatt al Arab
Euphrates
Tigris
Aras
Kura
Erivan
Kars
Alexandropol
Batoum
Tiflis
Baku
Elisavetpol
Nukha
Shemakha
Derbent
Petrovsk
Grozny
Vladikavkaz
Kutais
Georgia
Daghestan
Transcaucasia
Azerbaijan
Armenia
Mugan Steppe
Kara Dagh
Sabalan
Savalan
Kuh-i-Sultan
Lake Urmia
Lake Van
Lake Gokcha
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PALESTINE AND TRANS-JORDAN
Scale 1:1,400,000
5 0 5 10 15 20 25 30 English Miles
5 0 10 20 30 40 50 60 Kilometres
MEDITERRANEAN SEA
SYRIA
EL LEJA
JORDAN
DEAD SEA
BAHR LUT
EGYPT
Jerusalem
Hebron
Gaza
Jaffa
Haifa
Nablus
Beersheba
Tel Aviv
Nazareth
Tiberias
Safed
Acre
Jericho
Bethlehem
Ramallah
Amman
Irbid
Jerash
Madaba
Karak
Aqaba
Ma'an
Dhiban
Arair
Rabba
Tafila
Shobak
Petra
Wadi Musa
Ghadiyan Sultan
Qal'at el Hasa
Khan ez Zebib
Qal'at ez Zarqa (Gadda)
Qal'at el Mafraq
Tell el Mutesellim
Tell el Hesy
Tell Arad
Tell el Milh
Tell Beit Mirsim
Tell el Ajjul
Tell el Farah
Tell Jemmeh
Tell Sheba
Tell Halif
Tell Masos
Tell Ira
Tell Abu Hureira
Tell el Fara
Tell Ajjul
Tell el Sakan
Tell Nimrin
Tell Deir Alla
Tell Abu Kharaz
Tell Abu Sus
Tell Abu Suweirih
Tell Abu Shusheh
Tell Abu Hamid
Tell Abu Zeitun
Tell Abu Zeitun
Tell Abu Zeitun



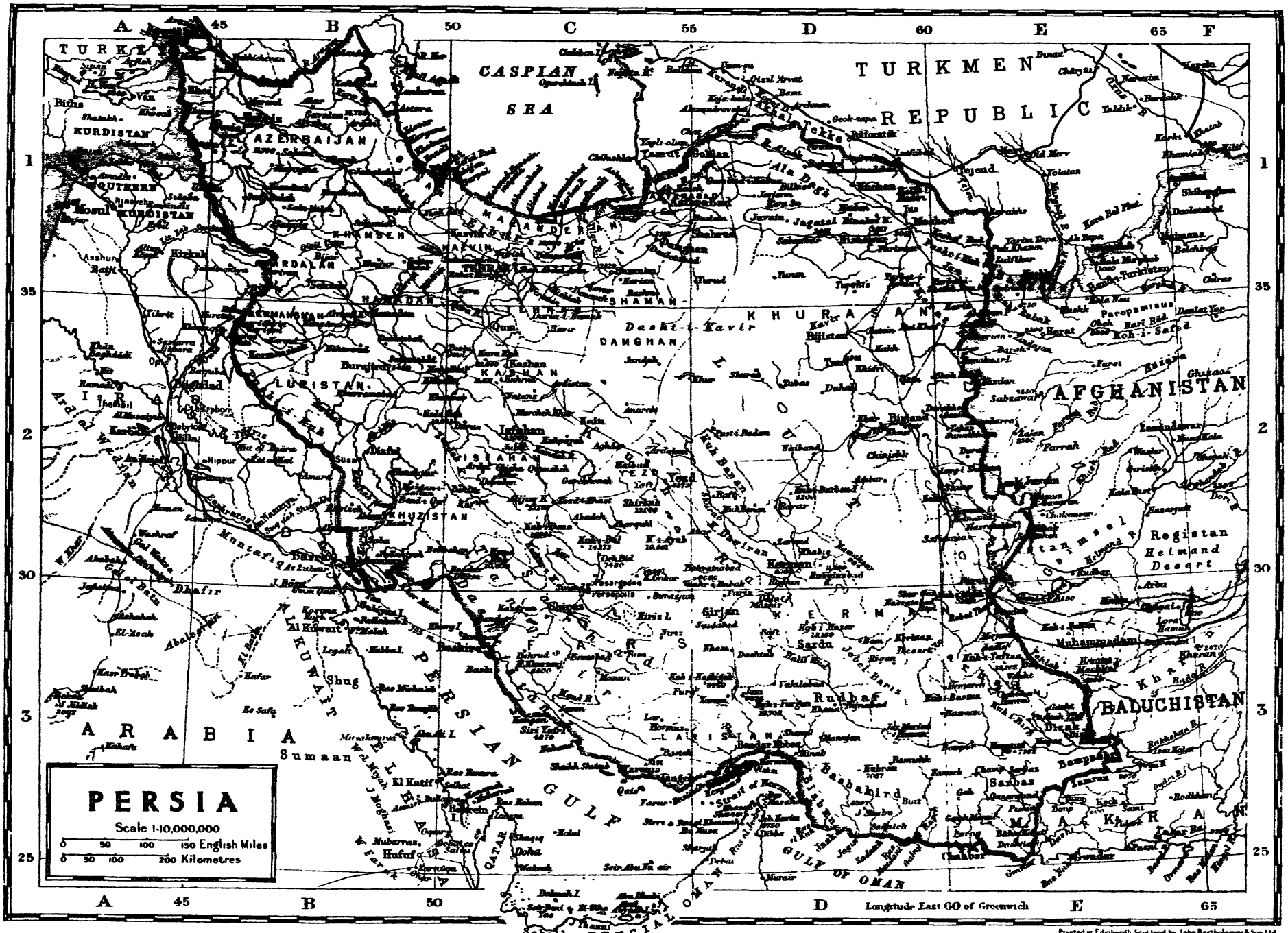
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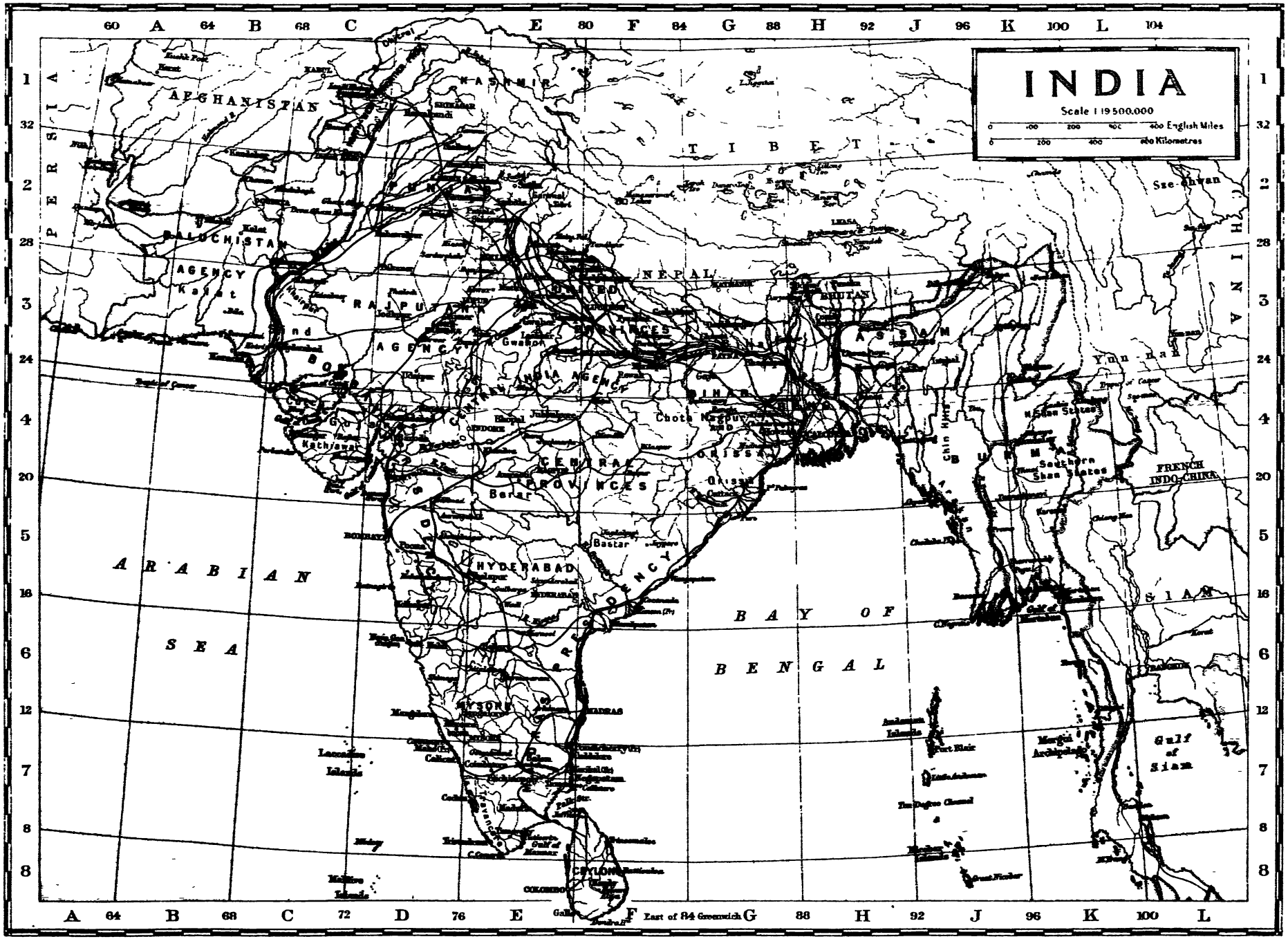
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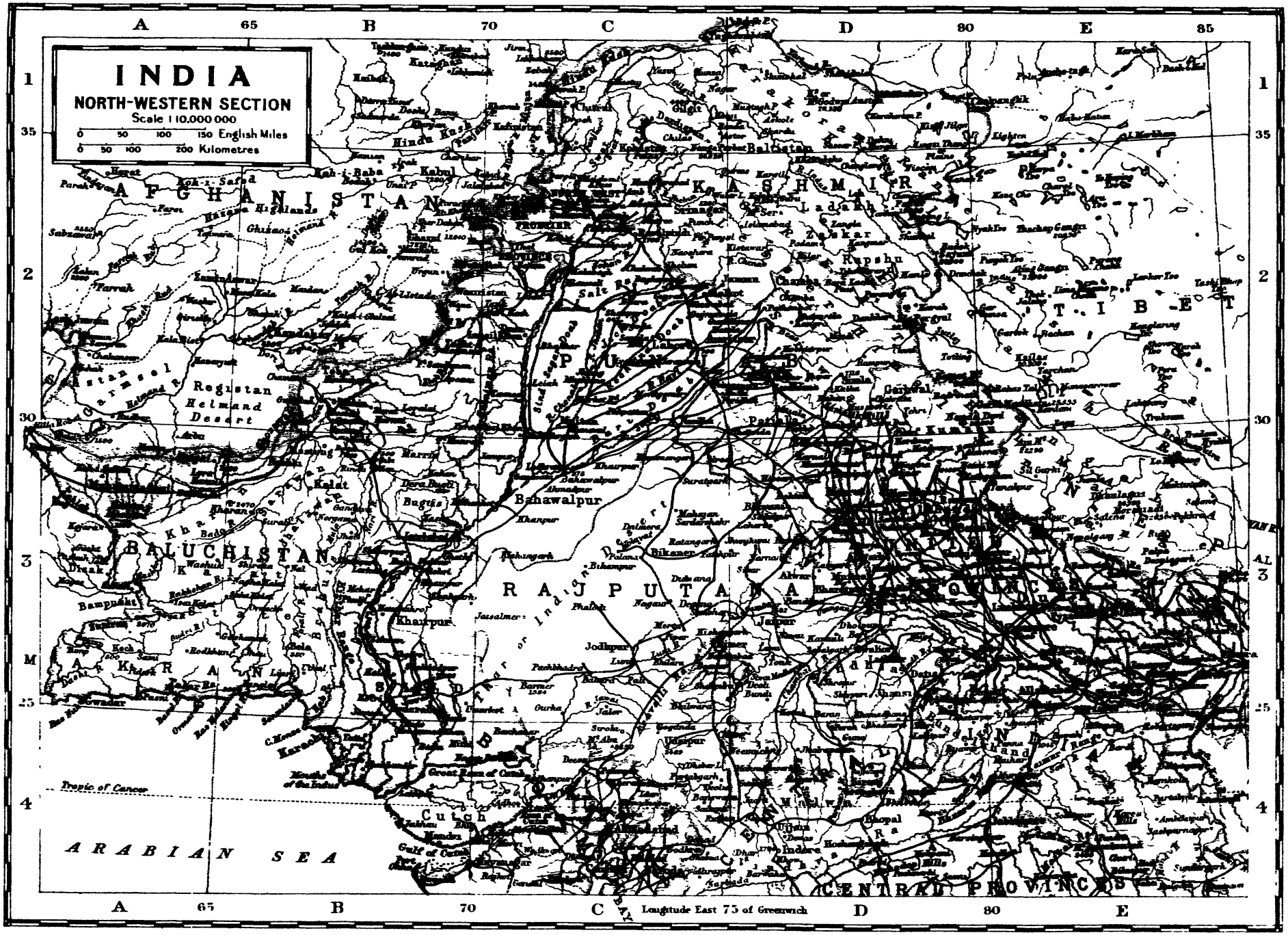
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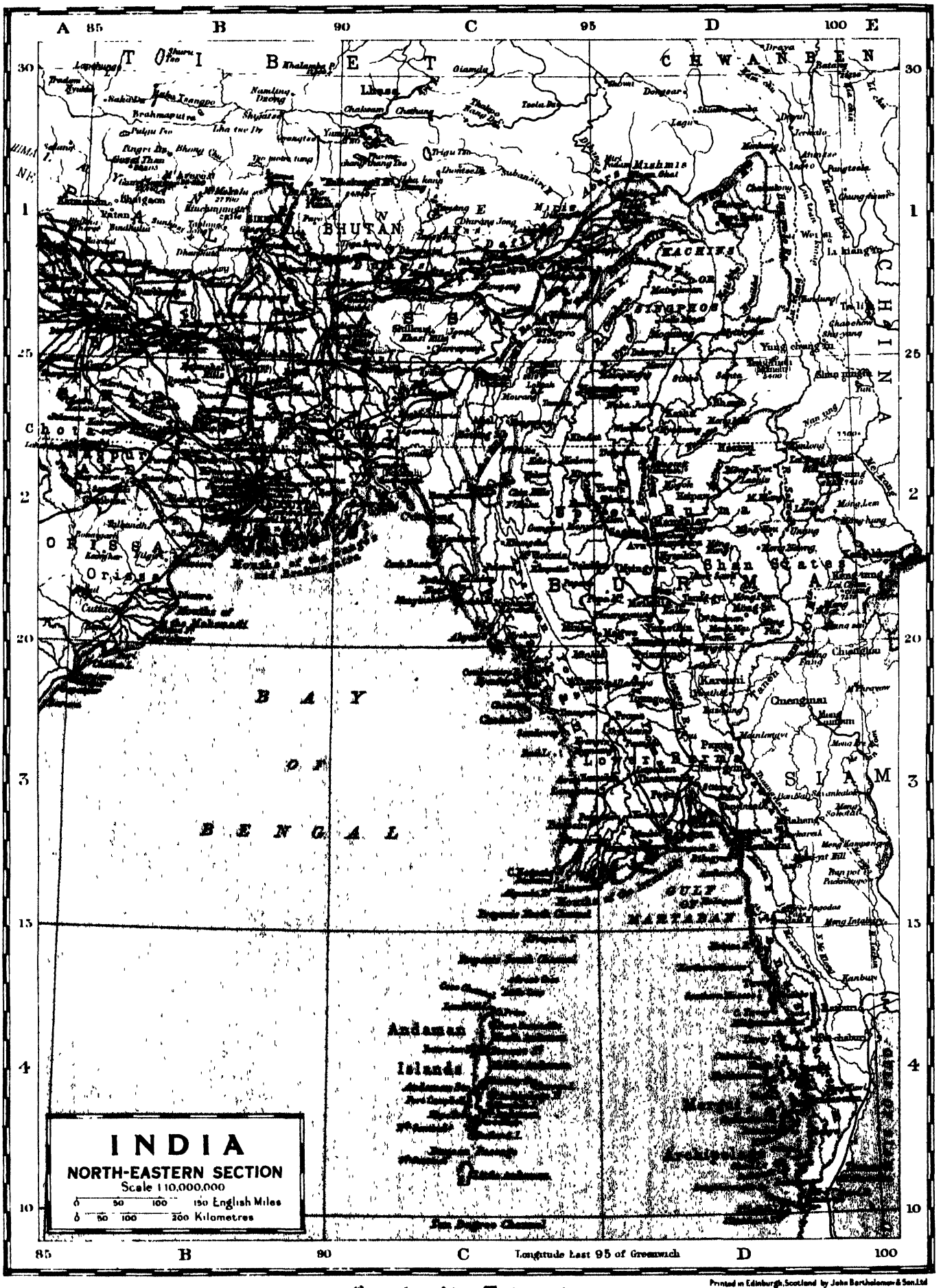
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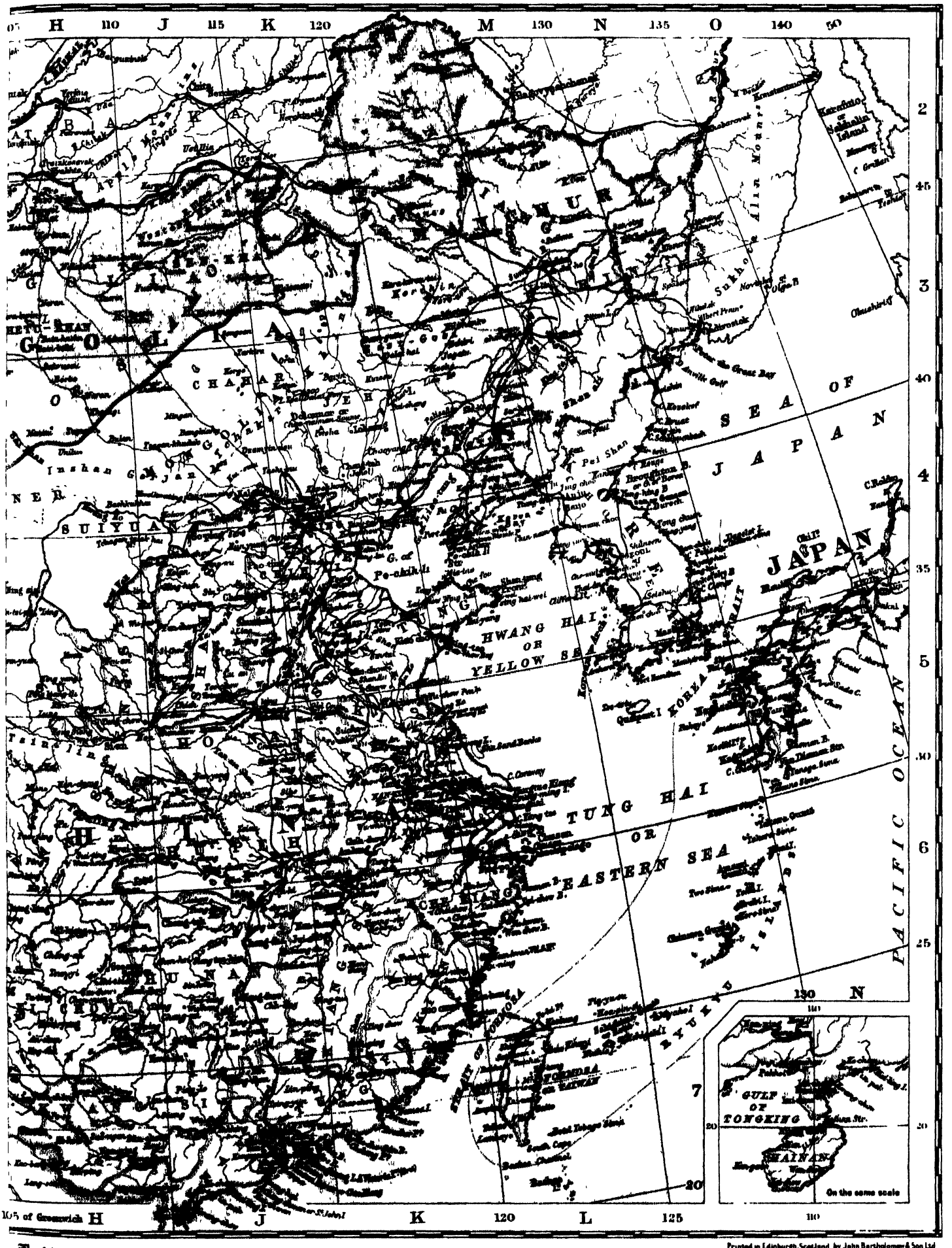
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INDIA
NORTH-EASTERN SECTION
Scale 1:10,000,000
0 50 100 150 English Miles
0 50 100 200 Kilometres
Longitude East 95 of Greenwich
BAY OF BENGAL
Andaman Islands
BHUTAN
Lhasa
Mishmis
KACHINS
SIAM
Shan States
BURMA
ORISSA
Orissa
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A
B
C
D
70
75
80
85
1
2
3
4
5
10
15
20
25
RAJPUTANA
Cutch
Kathiawar
CENTRAL PROVINCES
Berar
HYDERABAD
NIZAM'S DOMINIONS
Mysor
ARABIAN SEA
BAY OF BENGAL
CEYLON
Longitude East 75 of Greenwich
INDIA
SOUTHERN SECTION
Scale 1:10,000,000
0 50 100 150 English Miles
0 50 100 200 Kilometres
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70 A 75 B 80 C 85 D 90 E 95 F 100 G 105
2
45
3
40
4
35
5
30
6
25
7
20
SIN-KIANG
Takla Makan Deserts
Alty n Tagh
KUKU NOR
TSAIDAM
KHAM
TIBET
BHUTAN
INDIA
BURMA
CHINA
Scale 1:16,000,000
0 100 200 300 English Miles
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Tropic of Cancer
BAY OF BENGAL
B 80 C 85 D 90 E 95 F 100 Longitude East 105



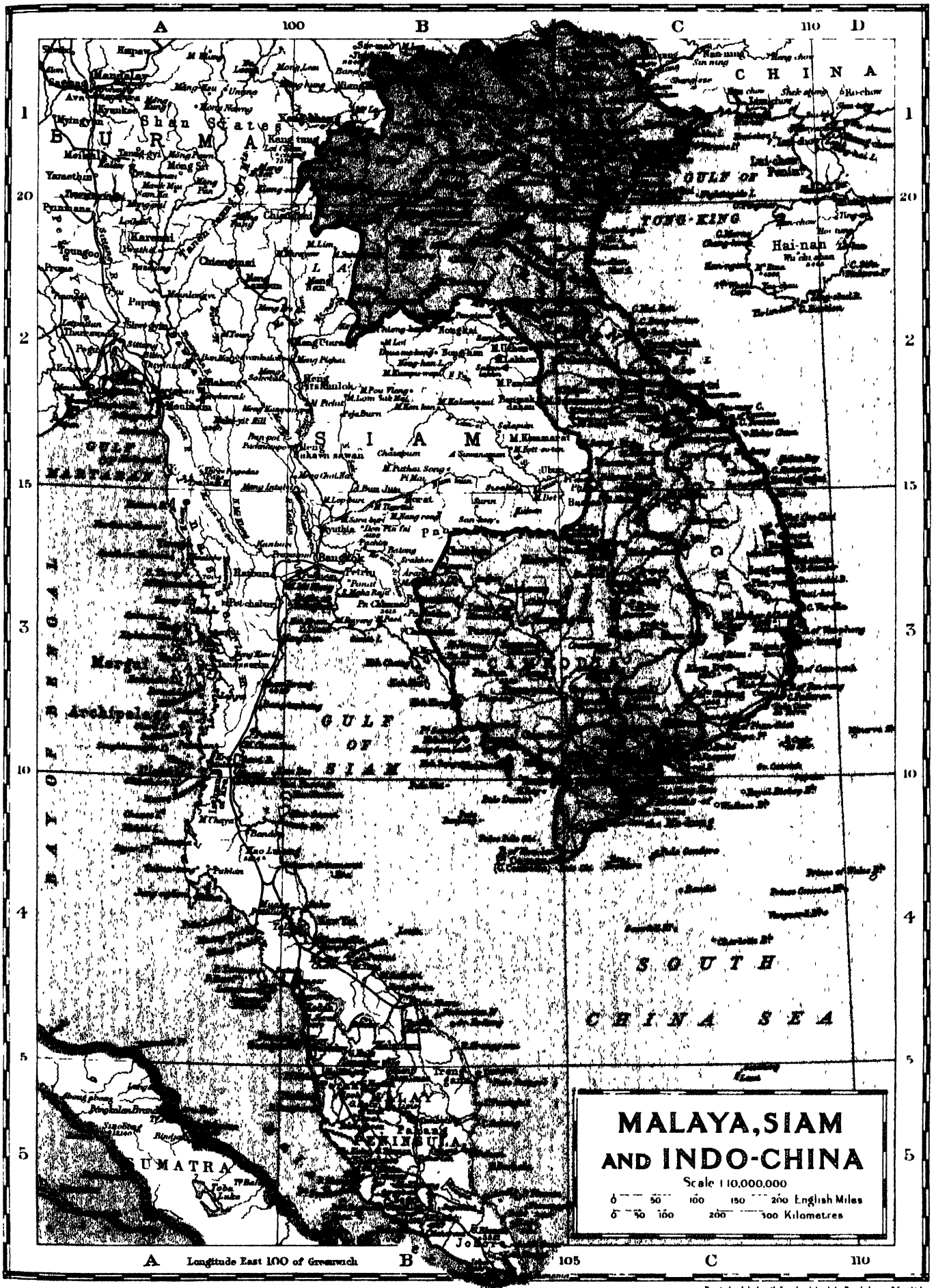
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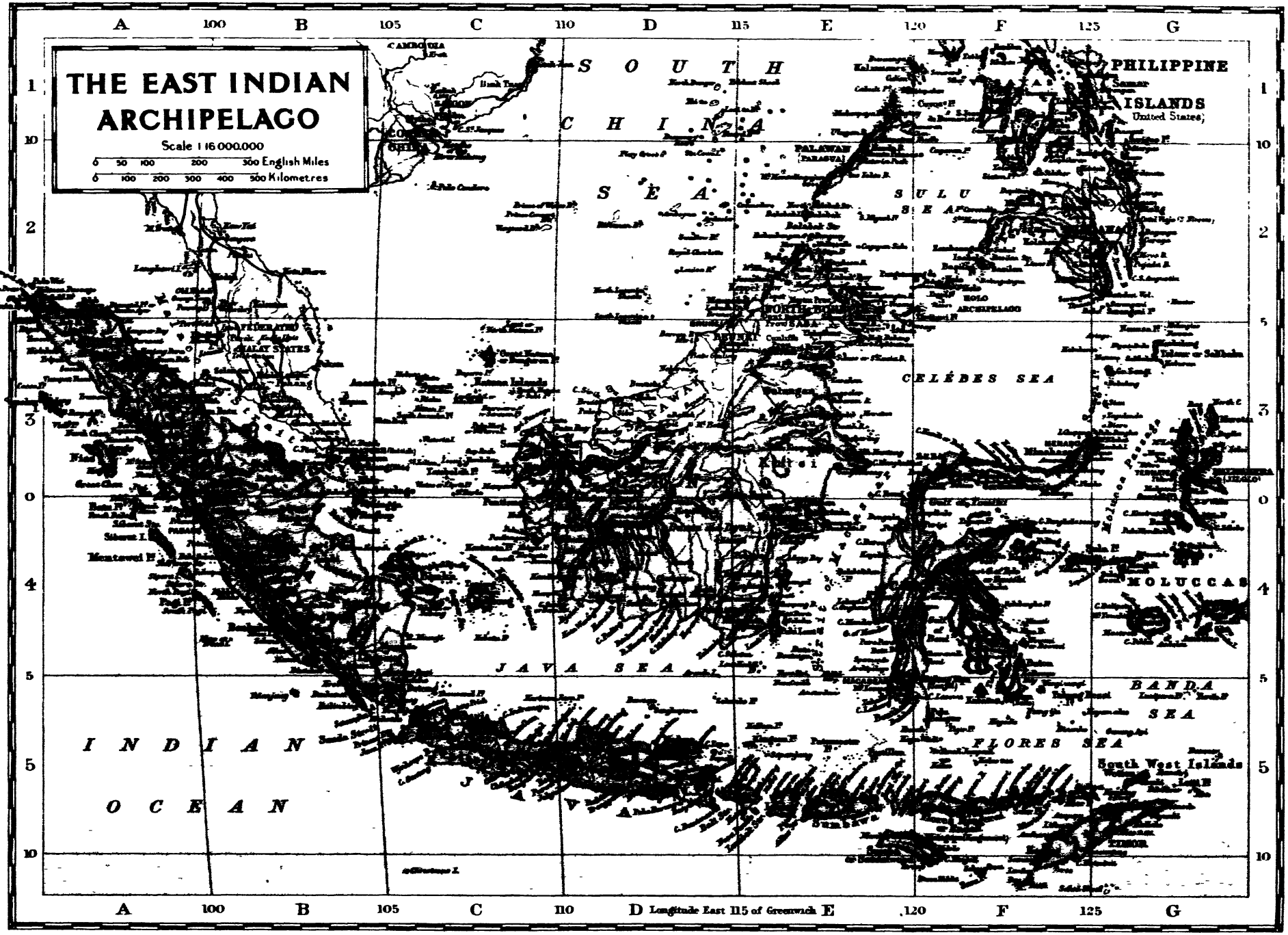


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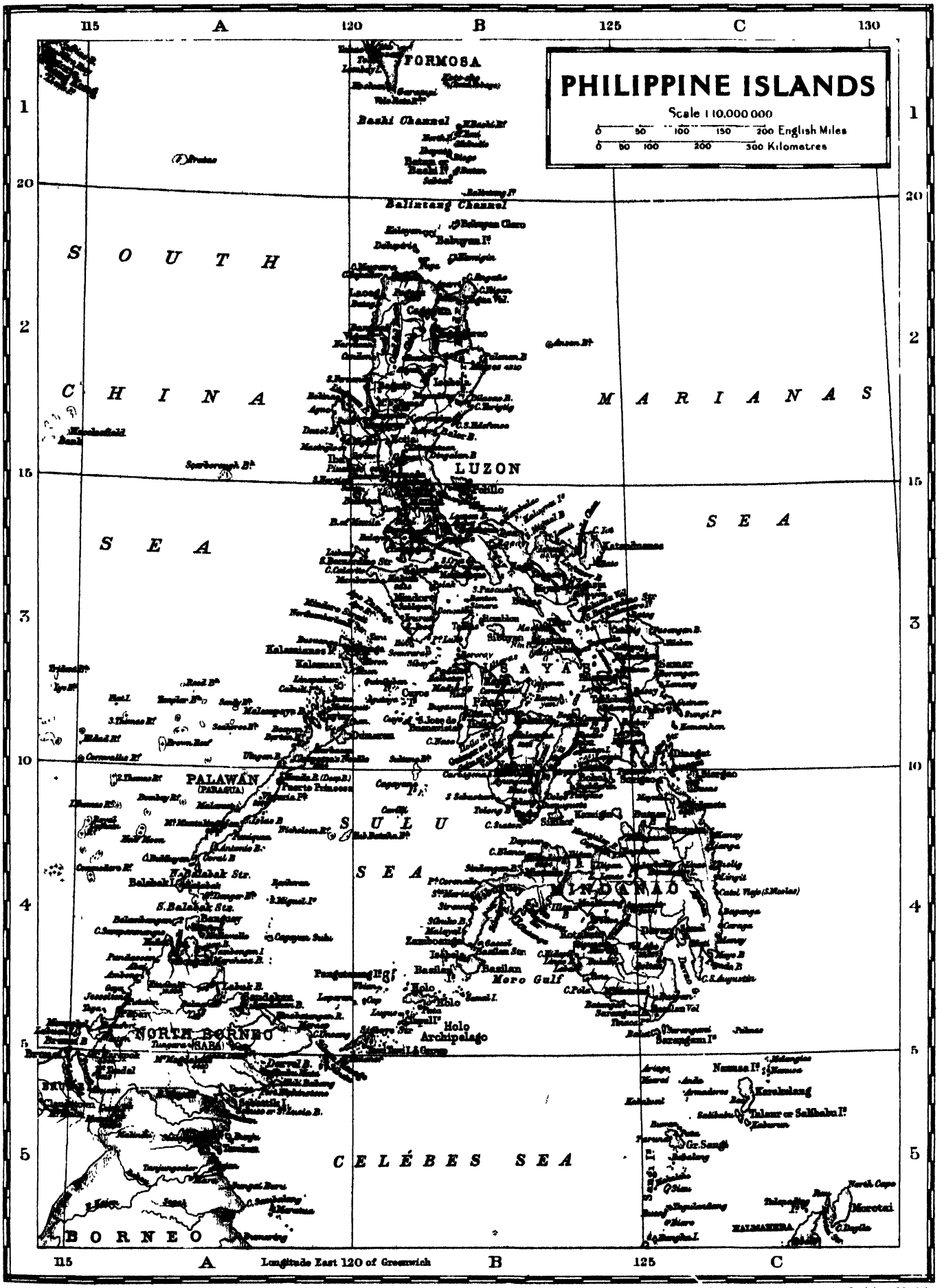


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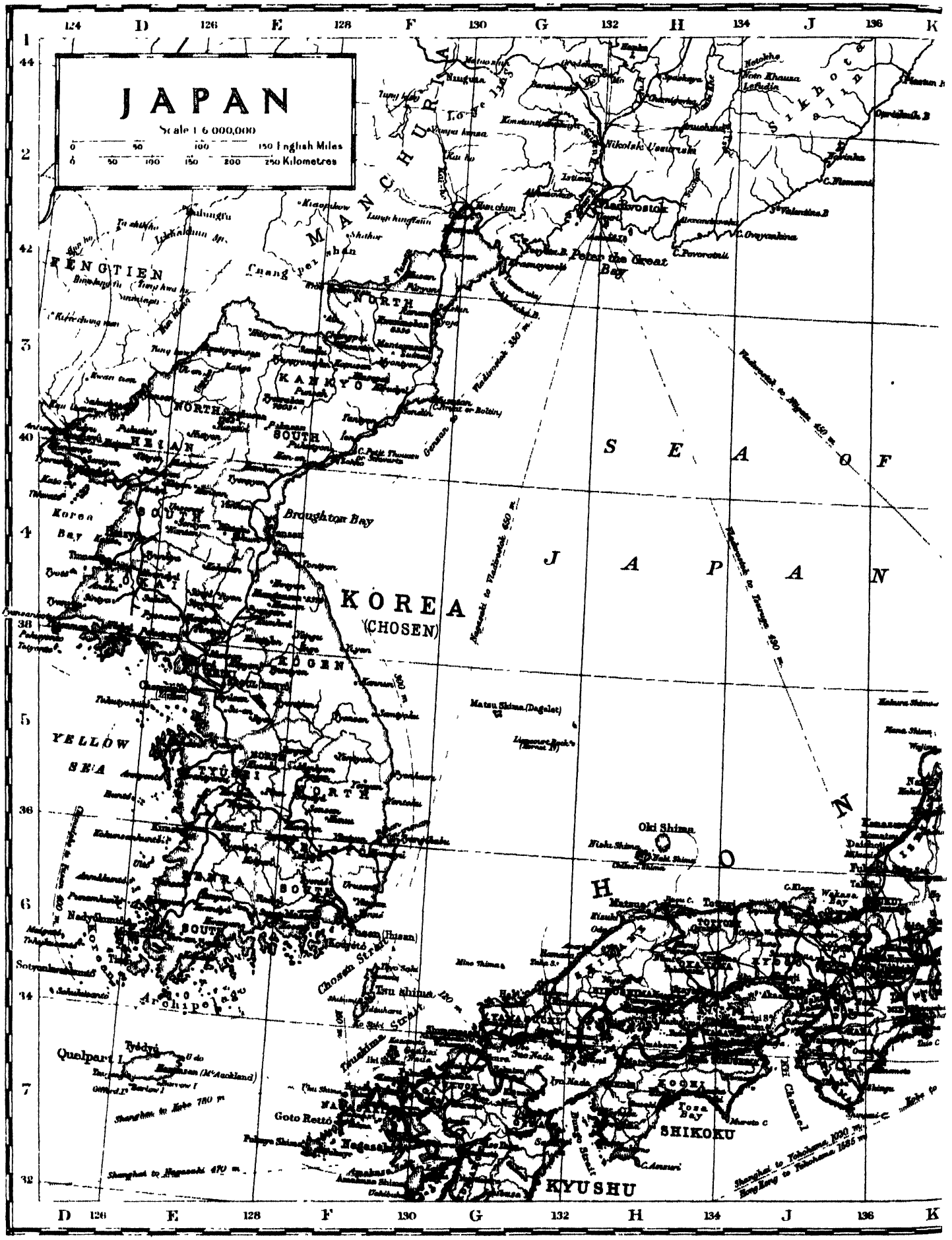


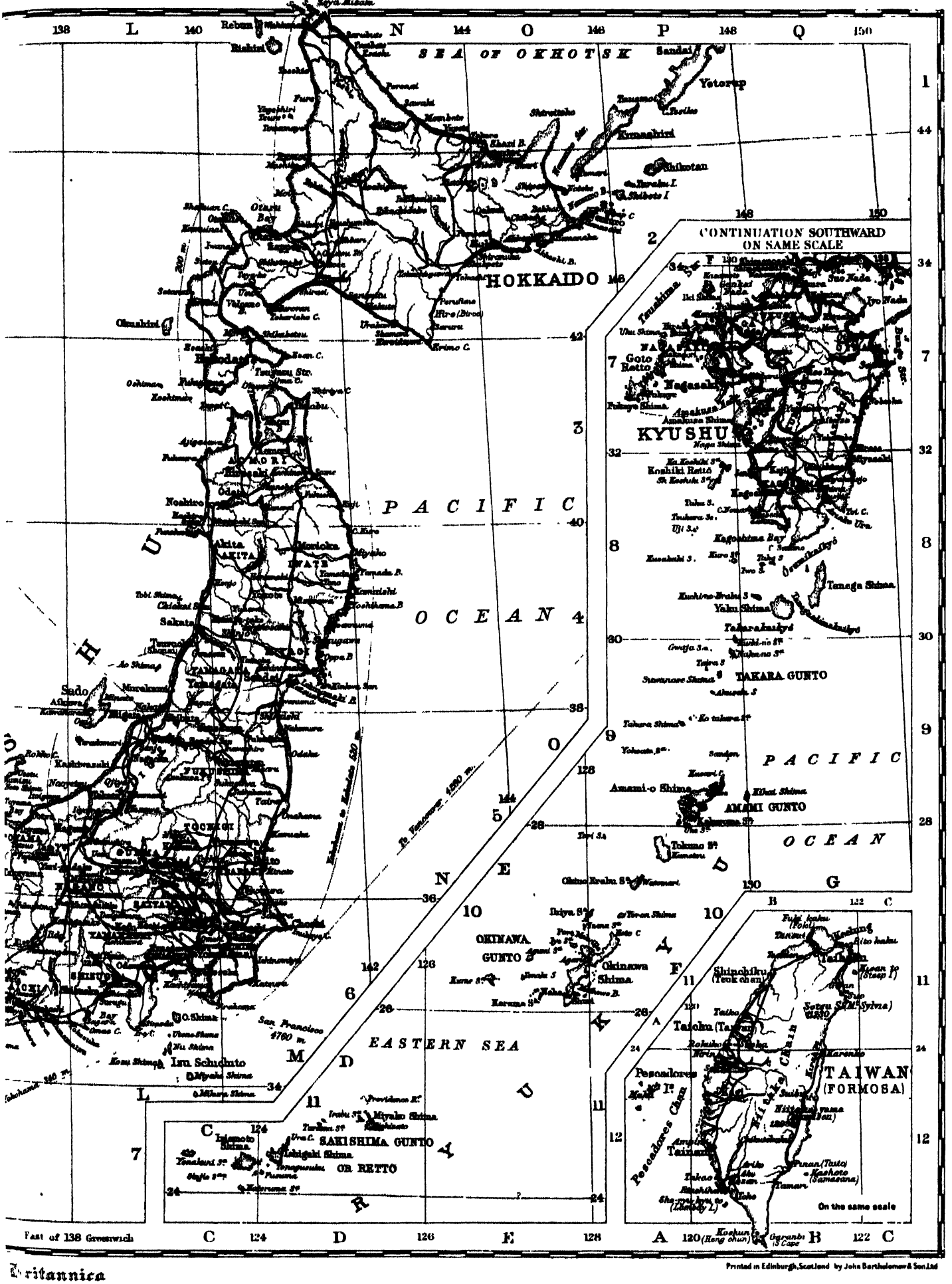
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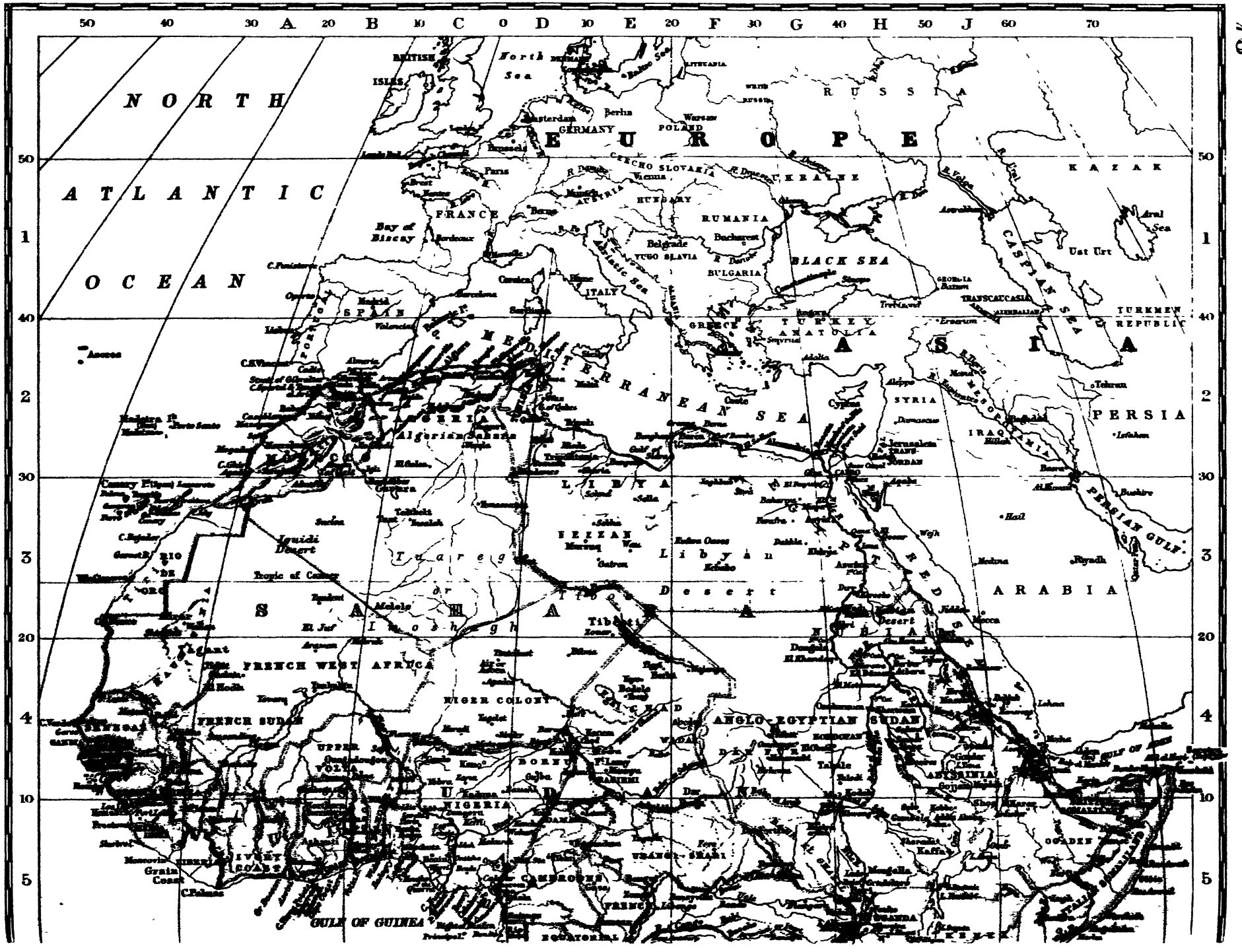


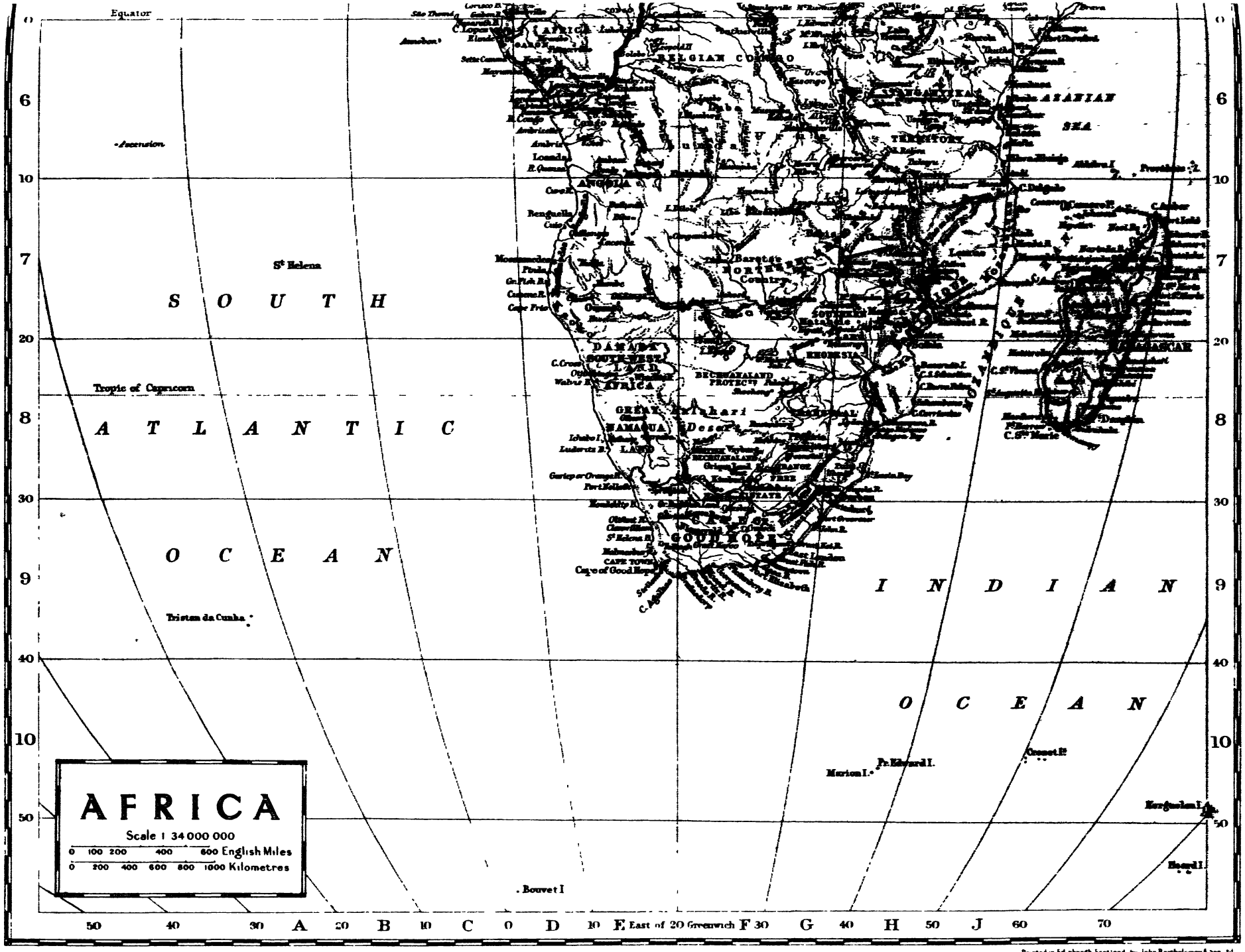
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JAPAN
Scale 1 6 000,000
0 50 100 150 English Miles
0 50 100 150 200 250 Kilometres
MANCHURIA
KENGTIEN
NORTH
KANKYO
NORTH
SOUTH
HEIAN
SOUTH
KOREA
(CHOSEN)
KOGEN
YELLOW
SEA
TYÛSEI
NORTH
SOUTH
SOUTH
Archipelago
Quelpart I.
Tyôdyô
Goto Rettô
Nagasaki
Broughton Bay
Korea Bay
Matsu Shima (Dagelet)
Oki Shima
Tsu shima
Chosen Strait
Tsushima
Tosa Bay
SHIKOKU
KYUSHU
Bungo Channel
Nagasaki to Vladivostok 450 m.
Vladivostok to Nagasaki 450 m.
Vladivostok to Tsuruga 490 m.
Shanghai to Nagasaki 470 m.
Shanghai to Yokohama 1030 m.
Hong Kong to Yokohama 1685 m.
SEA OF JAPAN
Peter the Great Bay
Vladivostok
Nikolsk Ussuriisk
SIBERIA
Hunchun
Liaotung Bay
Port Arthur
Dalny
Chefoo
Wei Hai Wei
Shanghai
Nagasaki
Fusan
Gensan
Masampho
Yokohama
Tokyo
Osaka
Kobe
Nagoya
Kyoto
Hakodate
Aomori
Sendai
Niigata
Toyama
Kanazawa
Fukui
Shizuoka
Matsuyama
Takamatsu
Kochi
Fukuoka
Kagoshima
Miyazaki
Oita
Kumamoto
Saga
Nagasaki
Tsushima
Iki Shima
Goto Is.
Amakusa Shimo Shima
Tanega Shima
Yaku Shima
Kuchino Shima
Tokara Is.
Oshima
Hachijo Shima
Izu Is.
Bonin Is.
Volcano Is.
Marcus I.
Ogasawara Gunto
Iwo Jima
Kazan Retto
Nanpo Shoto
Daito Shoto
Minami Daito Shima
Okino Daito Shima
Kita Daito Shima
Ryukyu Is.
Okinawa
Miyako Shima
Yaeyama Gunto
Ishigaki Shima
Iriomote Shima
Yonaguni Shima
Formosa
Pescadores
Pescadores Channel
Formosa Channel
Taiwan
Keelung
Tamsui
Taihoku
Taichu
Tainan
Takao
Hoko Shoto
Makung
Kirun
Taito
Shinchiku
Taito
Taitung
Karenko
Suao
Hozan
Kagi
Shoka
Tainan
Takao
Heito
Koshun
Oshima
Kikai Shima
Tokuno Shima
Amami Oshima
Kakeroma Shima
Yoron Shima
Okinawa Shima
Kume Shima
Miyako Shima
Ishigaki Shima
Iriomote Shima
Yonaguni Shima
Sakishima Gunto
Yaeyama Gunto
Ryukyu Is.
Nanpo Shoto
Daito Shoto
Minami Daito Shima
Okino Daito Shima
Kita Daito Shima
Bonin Is.
Volcano Is.
Marcus I.
Ogasawara Gunto
Iwo Jima
Kazan Retto
Hachijo Shima
Izu Is.
Oshima
Tokara Is.
Kuchino Shima
Yaku Shima
Tanega Shima
Amakusa Shimo Shima
Goto Is.
Iki Shima
Tsushima
Tsu shima
Chosen Strait
Bungo Channel
Tosa Bay
Oki Shima
Matsu Shima (Dagelet)
Broughton Bay
Korea Bay
Peter the Great Bay



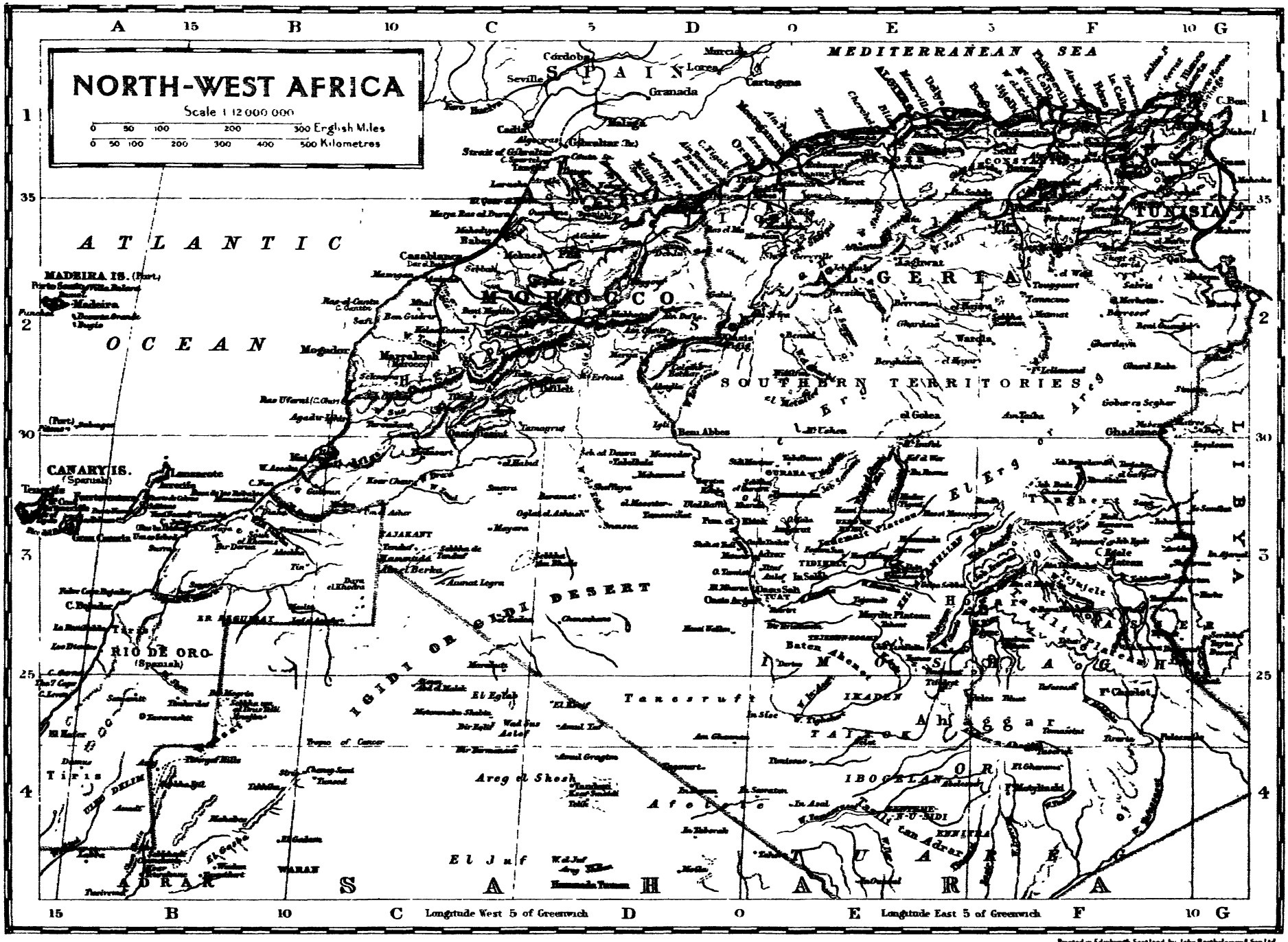
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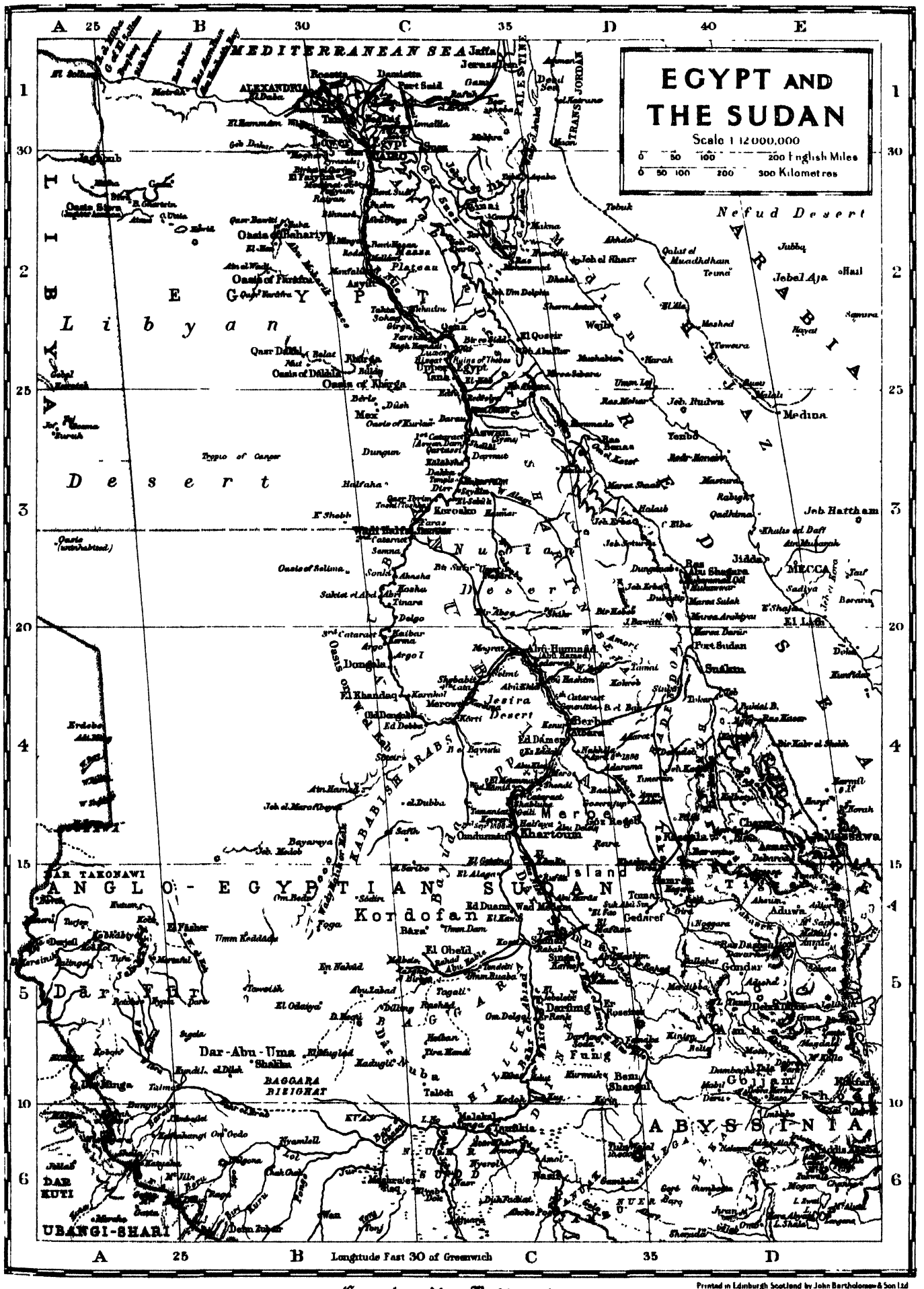

NORTH ATLANTIC OCEAN
EUROPE
ASIA
AFRICA
North Sea
BRITISH ISLES
GERMANY
POLAND
RUSSIA
FRANCE
Bay of Biscay
SPAIN
ITALY
SWITZERLAND
AUSTRIA
HUNGARY
CZECHO SLOVAKIA
RUMANIA
YUGO SLAVIA
BULGARIA
GREECE
TURKEY
ANATOLIA
BLACK SEA
CASPIAN SEA
KAZAK
Aral Sea
Ust Urt
TURKMEN REPUBLIC
TRANSCAUCASIA
GEORGIA
AZERBAIJAN
MEDITERRANEAN SEA
Adriatic Sea
Tyrrhenian Sea
Ionian Sea
Aegean Sea
Cyprus
SYRIA
IRAQ
MESOPOTAMIA
PERSIA
Tehran
Isfahan
Bushire
PERSIAN GULF
ARABIA
Hail
Riyadh
Medina
Mecca
RED SEA
Desert
Libyan Desert
Tropic of Cancer
Tibesti
Tropic of Cancer
Ahaggar or Hoggar
Tuareg
Aguelhok
Gao
Timbuktu
Agadès
Zinder
Kano
Sokoto
Bida
Ilorin
Abeokuta
Ibadan
Lagos
Oyo
Benin
Warri
Port Harcourt
Calabar
Enugu
Onitsha
Owerri
Aba
Umuahia
Ikot Ekpene
Uyo
Opobo
Bonny
Degema
Brass
Forcados
Sapele
Asaba
Benin River
Escravos
Burutu
Koko
Abo
Ogoja
Obudu
Ikom
Mamfe
Bamenda
Victoria
Buea
Kumba
Mundame
Nkongsamba
Douala
Edea
Eseka
Yaoundé
Ebolowa
Kribi
Campo
Akwanga
Keffi
Abuja
Minna
Bida
Kontagora
Zaria
Kaduna
Jos
Bukuru
Wase
Lafia
Makurdi
Gboko
Katsina
Kano
Hadejia
Nguru
Maiduguri
Dikwa
Bornu
Yola
Numan
Lau
Ibi
Wukari
Takum
Donga
Mambilla Plateau
Gombe
Bauchi
Azare
Potiskum
Damaturu
Fort Lamy
Lake Chad
Abéché
Fort Archambault
Fort Crampel
Fort Sibut
Bangui
Fort Sharp
Fort Rousset
Fort Lamy
Moundou
Pala
Lai
Bongor
Mao
Ati
Faya
Largeau
Kufra
Jalo
Siwa
Cairo
Alexandria
Port Said
Suez
Ismailia
Gulf of Suez
Gulf of Aqaba
Sinai
Jerusalem
Amman
Beirut
Damascus
Aleppo
Latakia
Tripoli
Benghazi
Derna
Tobruk
Sollum
Barce
Cyrenaica
Fezzan
Sebha
Murzuq
Ghat
Ghadames
Nalut
Gharian
Yefren
Zuara
Zawia
Tripoli
Misurata
Homs
Sirte
Bir Hacheim
Bir Tarfawi

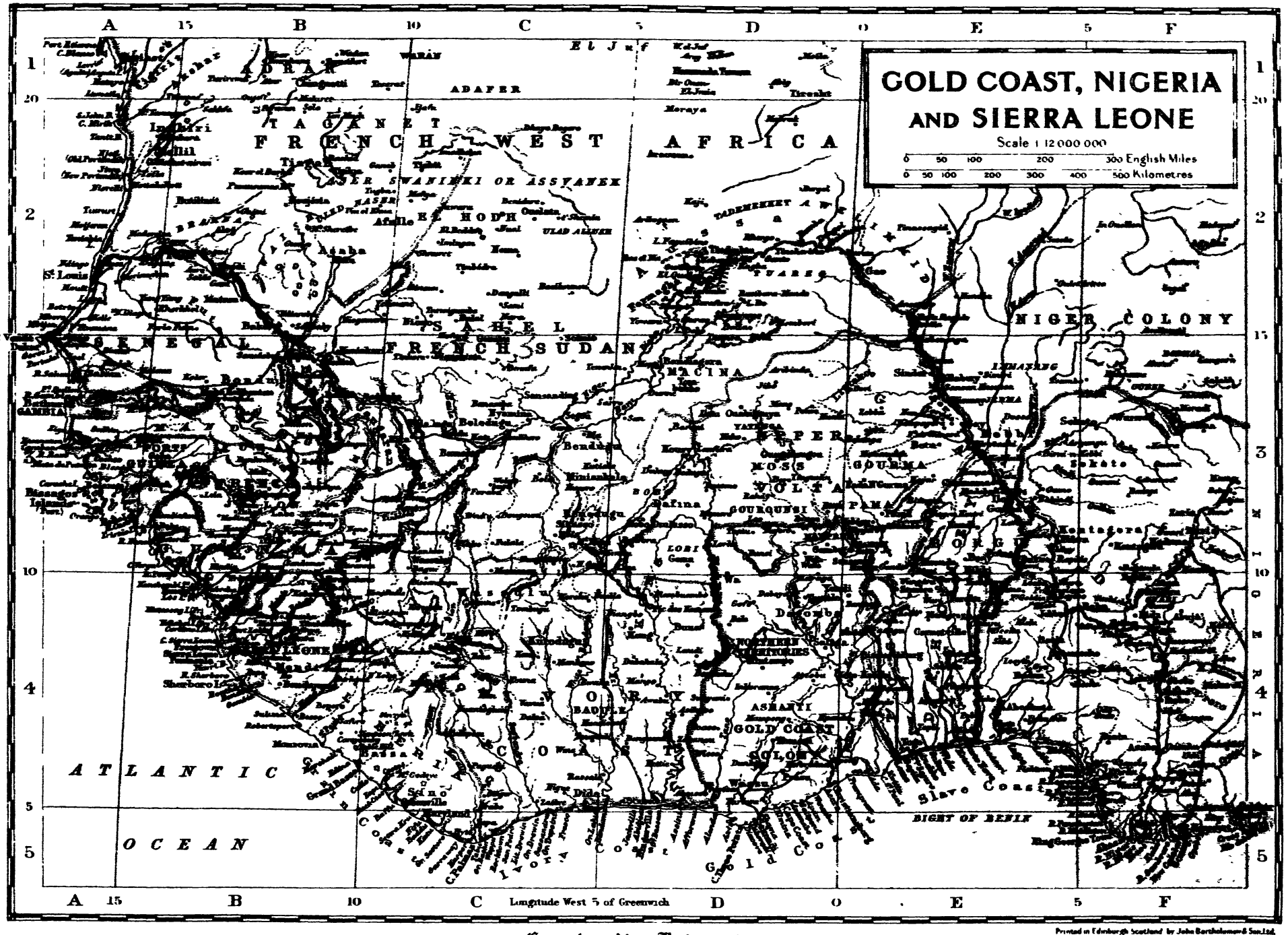


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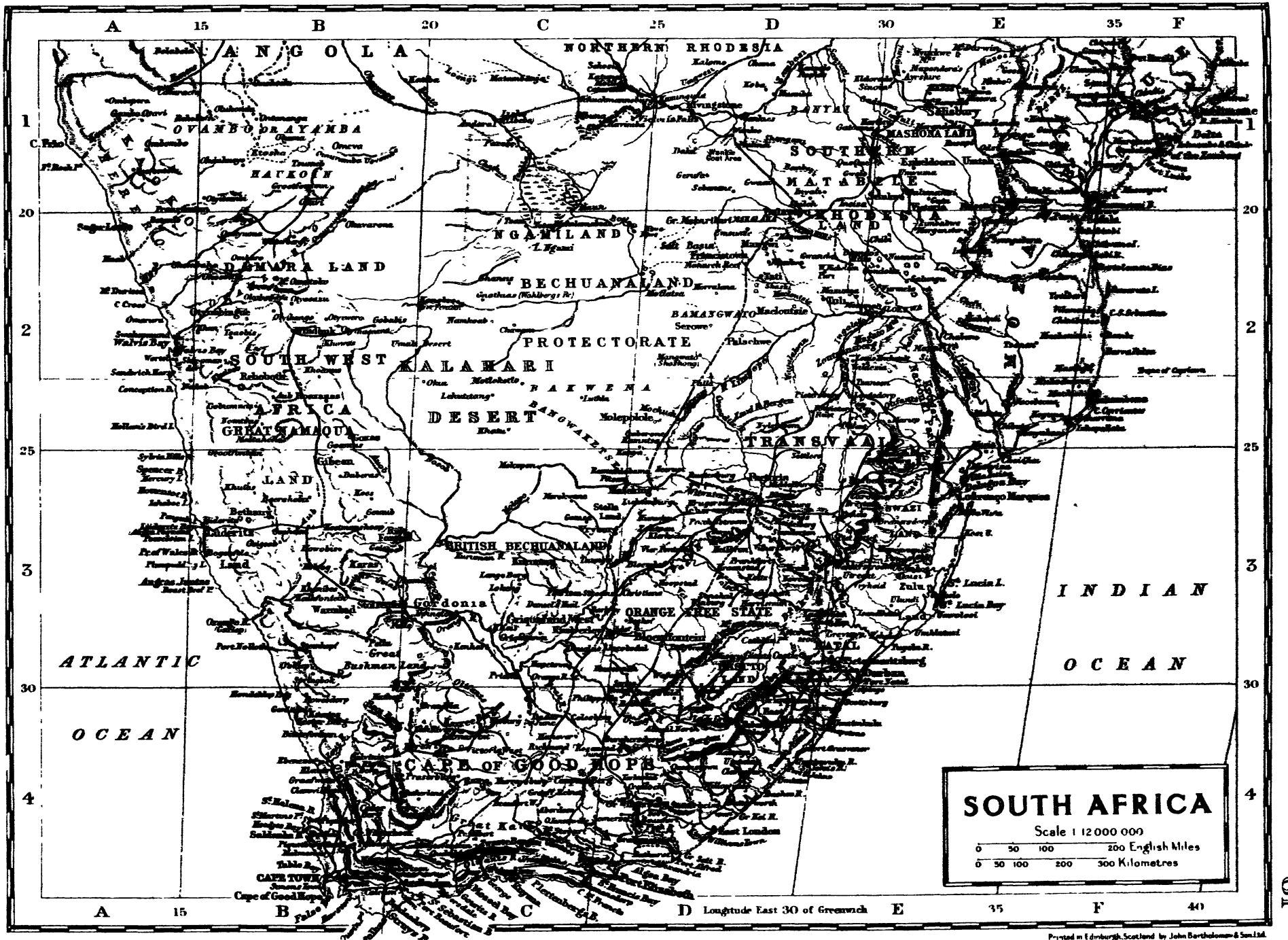

NORTH-WEST AFRICA
Scale 1:12 000 000
0 50 100 200 300 English Miles
0 50 100 200 300 400 500 Kilometres
A 15 B 10 C 5 D 0 E 5 F 10 G
1
35
2
30
3
25
4
MEDITERRANEAN SEA
ATLANTIC OCEAN
SPAIN
Córdoba
Seville
Granada
Malaga
Cartagena
Gibraltar
Strait of Gibraltar
MOROCCO
ALGERIA
TUNISIA
SOUTHERN TERRITORIES
MADEIRA IS. (Port.)
Madeira
CANARY IS. (Spanish)
RIO DE ORO (Spanish)
Casablanca
Rabat
Fez
Marrakesh
Agadir
Tangier
Oran
Algiers
Tunis
Bône
Constantine
Biskra
Ghadames
Ghat
Tripoli
Gabes
Sfax
Sousse
Bizerta
Tebessa
Gafsa
Tozeur
Nefta
Touggourt
Ouargla
Ghardaia
Laghouat
Bou Saada
Beni Abbes
Colomb Bechar
Adrar
Tindouf
Reggane
In Salah
In Guezzam
In Amenas
Ghadames
Nalut
Yefren
Gharyan
Zuara
Zliten
Misurata
Homs
Bengasi
Derna
Tobruk
Sollum
Mersa Matruh
Siwa
Jarabub
Kufra
Uweinat
Gilf Kebir
Aujila
Zella
Hon
Sebha
Murzuk
Ubari
Ghat
Ghadames
Tummo
Bilma
Agades
Air
Tahoua
Zinder
Nguigmi
Lake Chad
Fort Lamy
Abeche
Fada
Faya
Largeau
Tibesti
Ennedi
Borkou
Kanem
Bahr el Ghazal
Darfur
Kordofan
Wadai
Ouaddai
Baguirmi
Bornu
Hausaland
Air
Asben
Ahaggar
Tanezrouft
Adrar des Iforas
Adrar
Tagant
Tidikelt
Tademait
Tassili n Ajjer
Tassili n Ahaggar
Tassili des Ajjers


EGYPT AND THE SUDAN
Scale 1:12,000,000
0 50 100 200 English Miles
0 50 100 200 300 Kilometres
MEDITERRANEAN SEA
Jaffa
Jerusalem
PALESTINE
TRANS JORDAN
ALEXANDRIA
Damietta
Port Said
Suez
Gulf of Suez
Nile Delta
Nefud Desert
ARABIA
Oasis Siwa
Oasis el Baharia
Oasis of Farafra
Plateau
Asyut
Libyan
Desert
Qasr Dakhla
Oasis of Dakhla
Oasis of Kharga
Upper Egypt
Luxor
Ruins of Thebes
Qena
Edfu
Kom Ombo
Aswan
Assuan Dam
Philae
Abu Simbel
Wadi Halfa
Halfaha
Dongola
Oasis of Selima
Sarras
Second Cataract
Semna
Nubian Desert
Oasis of Sukkot el Abd
Tinara
Dongola
Third Cataract
Kaibar
Argo
Argo I
Oasis of Khandaq
Ed Dongola
Ed Debba
Jesira Desert
Shabakit el Atab
Abri-Hamdab
Abu Hashim
Kolarab
Berber
Ed Damer
Atbara
Abu Hamed
Shendi
Metemma
Merowe
Omdurman
Khartoum
Blue Nile
Sobat
Port Sudan
Suakin
Jidda
MECCA
Ras Abu Shagara
Sadiya
Jeb Hattam
Medina
Yenbo
Ras Benas
Rabigh
Qadhima
Ras Mohar
Jeb Ruhwa
Mashed
Tewara
Jebel Aja
Hail
Tebuk
Qalat el Muadhdham
Jebel el Khasr
Weijh
El Quseir
Mashabieh
Harah
Ras Benas
Kosseir
Berenice
Wadi Allaqi
Wadi Abtai
Wadi Kharit
Wadi Hodein
Wadi Howar
Wadi Melik
Wadi Shaati
Wadi Abadi
Wadi Gabgab
Wadi Muqaddam
Wadi Hamid
Wadi Muqattam
Wadi Hammamat
Wadi Gasus
Wadi Natrun
Wadi Rayan
Wadi Feiran
Wadi Sudr
Wadi Tumilat
Ismailia
Suez
Gebel Dukhan
Gebel Zeit
Gebel Ataka
Gebel Gharib
Gebel Hamrat
Gebel Kharga
Gebel Uweinat
Gebel Marra
Gebel Tagabo
Gebel Kordofan
Gebel Abu Sinun
Gebel Abu Gumaiz
Gebel Abu Dom
Gebel Abu Sufian
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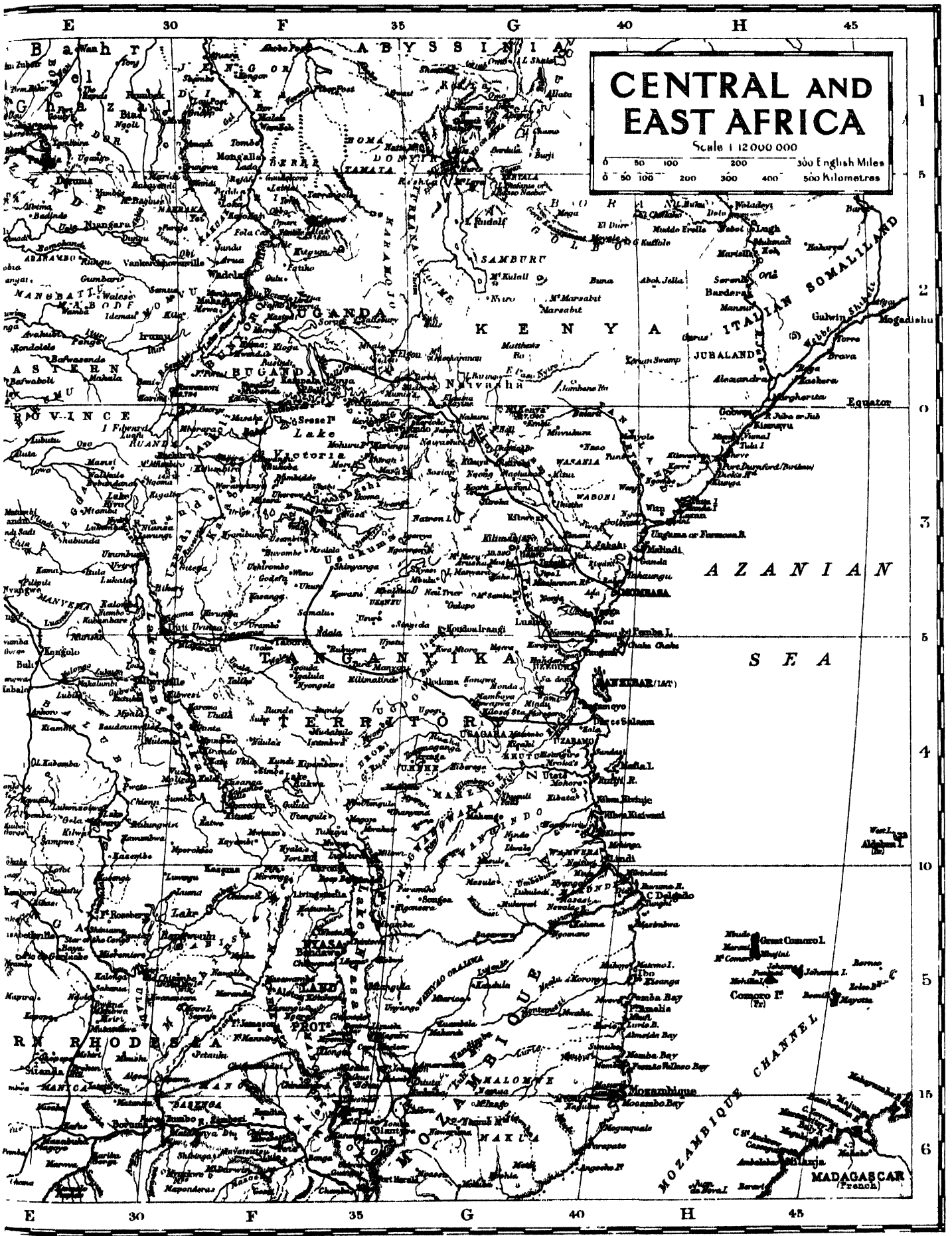
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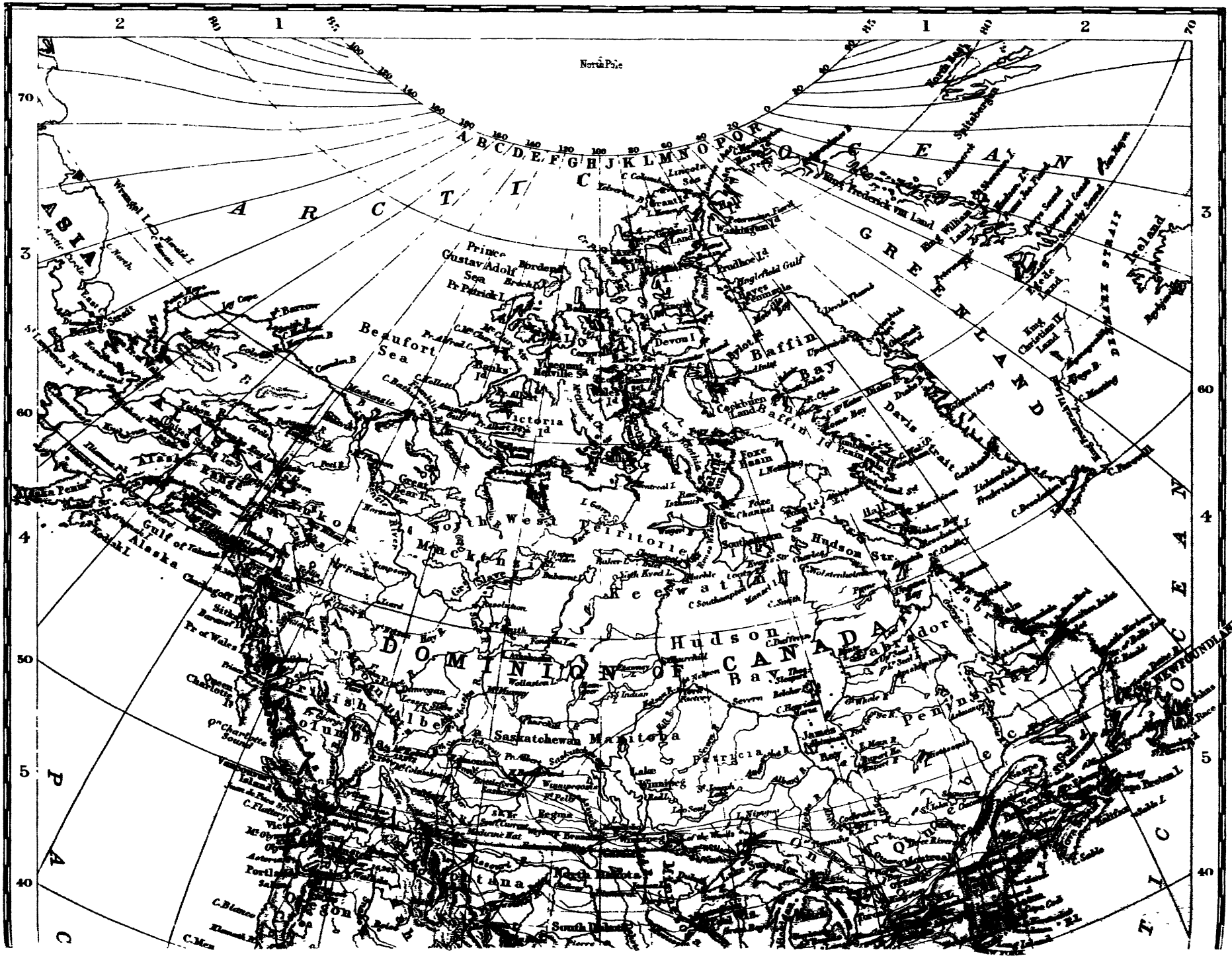
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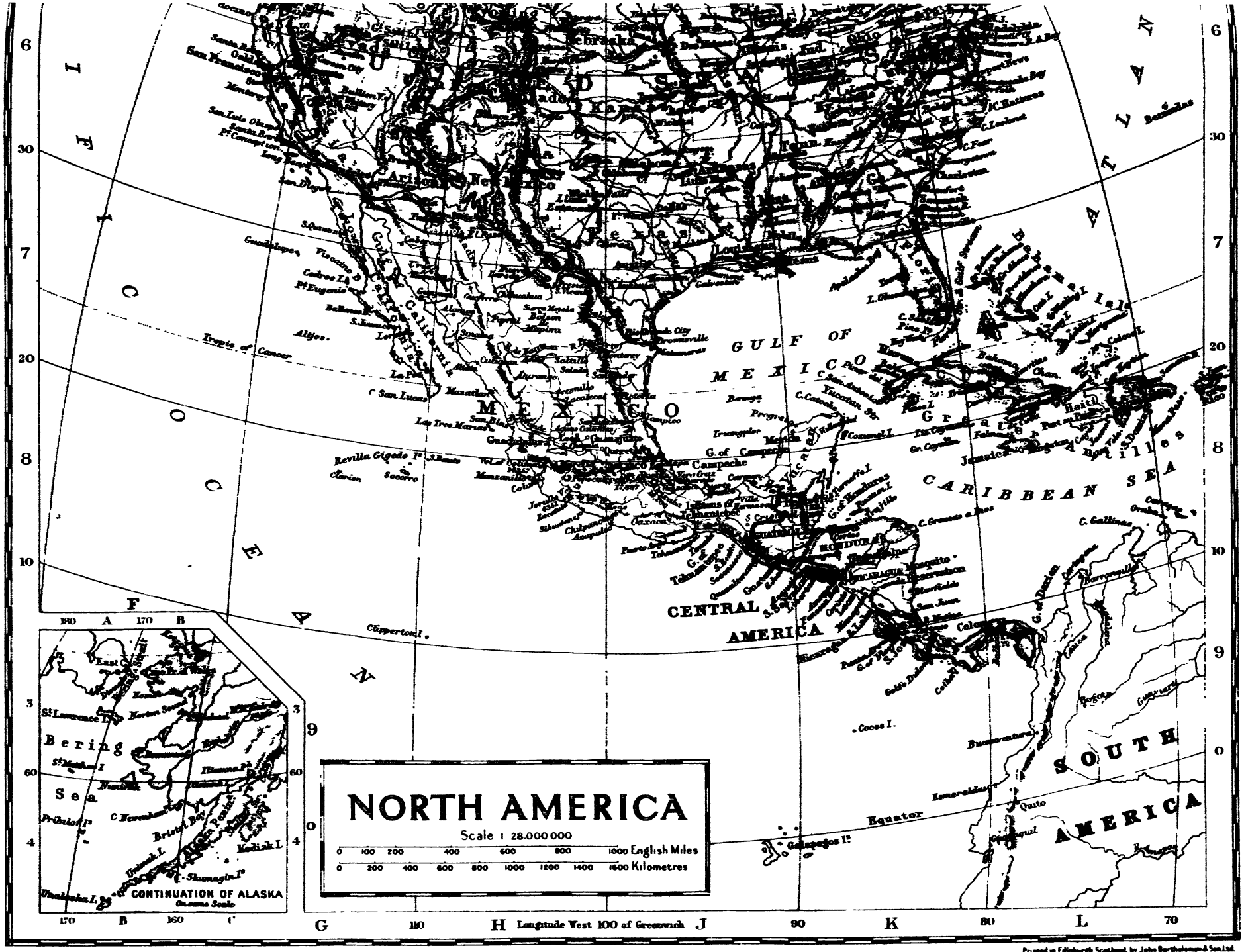
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CAMEROONS
UBANGI-SHARI
BELGIAN CONGO
GABON
RIO MUNI
Fernando Po (Spanish)
St. Thomas (Port.)
BIGHT OF BIAFRA
ATLANTIC
OCEAN
CONGO
ZAIRE
CUANZA NORTE
MALANGE
LUNDA
MOXICO
BENGUELA
MOSSAMEDES
HUILA
LUCHAZES
NORTHE
CUBANGO
Leopold II
Lake
Stanleyville
Ponthierville
Coquilhatville
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Boma
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Loanda
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Encyclopædia

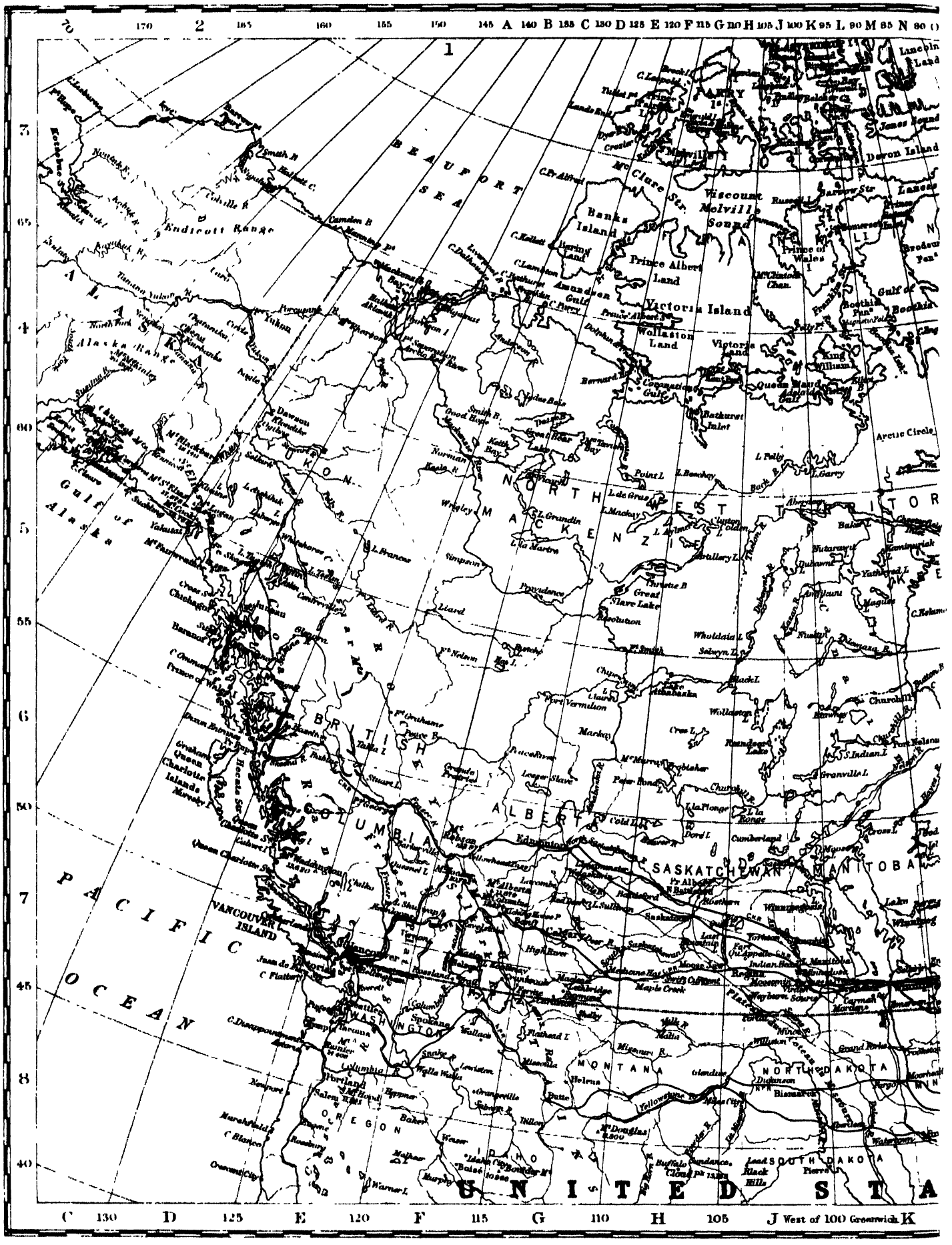

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KENYA
UGANDA
JUBALAND
TANGANYIKA TERRITORY
AZANIAN SEA
RHODESIA
MOZAMBIQUE
MADAGASCAR (French)
Equator
Lake Victoria
Lake Nyasa
Lake Rukwa
Lake Bangweulu
Lake Mweru
Lake Tanganyika
Lake Kivu
Lake Albert
Lake Rudolf
Mogadishu
Zanzibar (Ist.)
Comoro Is. (Fr.)
Great Comoro I.
Johanna I.
Mayotte
Mozambique
Beira
Quelimane
Chinde
Lourenco Marques
Delagoa Bay
Mozambique Channel
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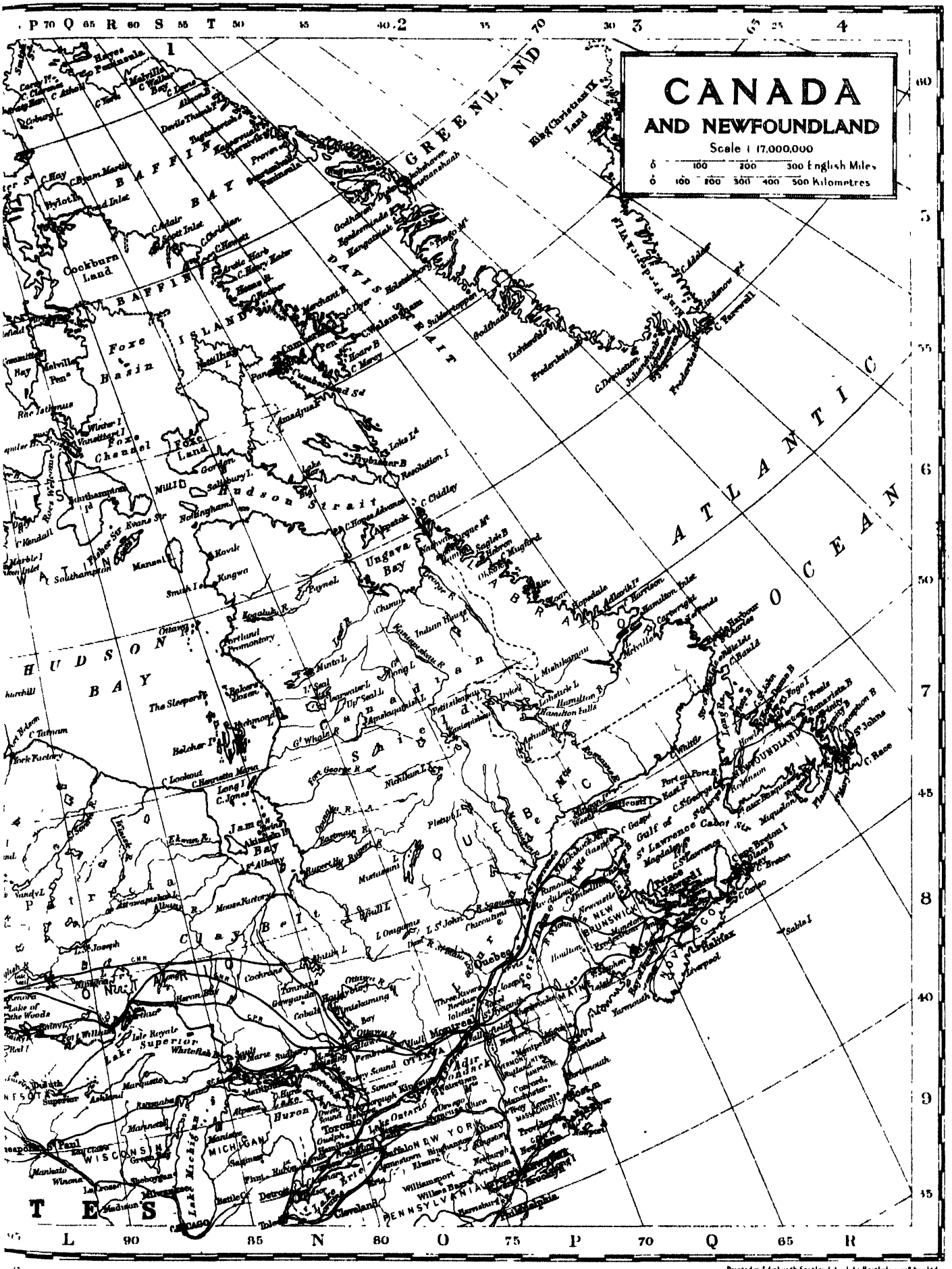
Britannica


North Pole
ARCTIC OCEAN
PACIFIC OCEAN
ATLANTIC OCEAN
ASIA
GREENLAND
DOMINION OF CANADA
Alaska
Yukon
Mackenzie
Keewatin
Hudson Bay
Labrador
Baffin Land
Baffin Bay
Davis Strait
Hudson Str.
Beaufort Sea
Prince Gustav Adolf Sea
Victoria Id.
Banks Id.
Melville Id.
Devon I.
Ellesmere Land
Grant Land
Prince Patrick I.
Prince Alfred C.
Prince Albert Sd.
Wollaston Land
Queen Victoria Str.
Coronation G.
Boothia Pen.
Fox Channel
Foxe Basin
Southampton I.
Melville Pen.
Great Bear L.
Great Slave L.
Athabasca L.
Lake Winnipeg
Saskatchewan
Manitoba
Alberta
British Columbia
Queen Charlotte Is.
Vancouver I.
Prince of Wales I.
Gulf of Alaska
Kodiak I.
Aleutian Islands
Behring Sea
Behring Str.
Wrangel I.
Herald I.
Arctic Ocean
Ireland
Iceland
Spitsbergen
North East Land
Prince Frederick VII Land
King Christian IX Land
King Christian Land
Jan Mayen
Jones Sound
Lincoln Sea
Greenly Island
Belle Isle Str.
Belle Isle
Newfoundland
Anticosti I.
Prince Edward I.
Cape Breton I.
Gaspé Pen.
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Lake Michigan
Lake Huron
Lake Erie
Lake Ontario
Montana
North Dakota
Minnesota
Ontario
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Portland
Seattle
Chicago
Detroit
Buffalo
Toronto
Ottawa
Montreal
Quebec
Boston
New York
Philadelphia
Washington
Baltimore
Pittsburg
Cincinnati
Cleveland
Milwaukee
Duluth
Winnipeg
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Edmonton
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Richmond
Norfolk
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Virginia City
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Montebello
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South Gate
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Gardena
Torrance
Redondo Beach
Hermosa Beach
Manhattan Beach
El Segundo
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San Luis Obispo
Paso Robles
Atascadero
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Moorpark
Fillmore
Santa Paula
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Ventura
Oxnard
Port Hueneme
Point Mugu
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Moorpark
Fillmore
Santa Paula
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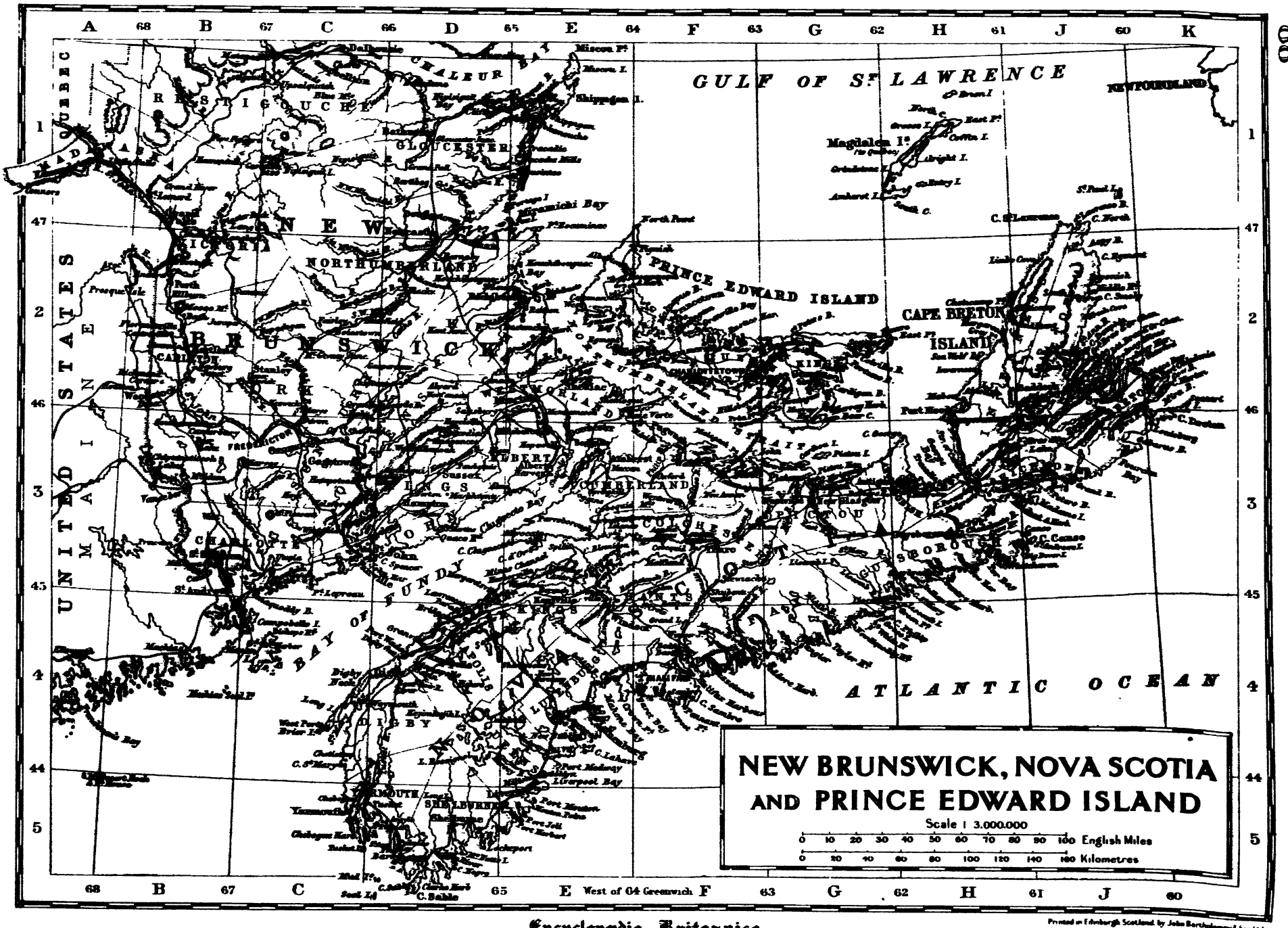


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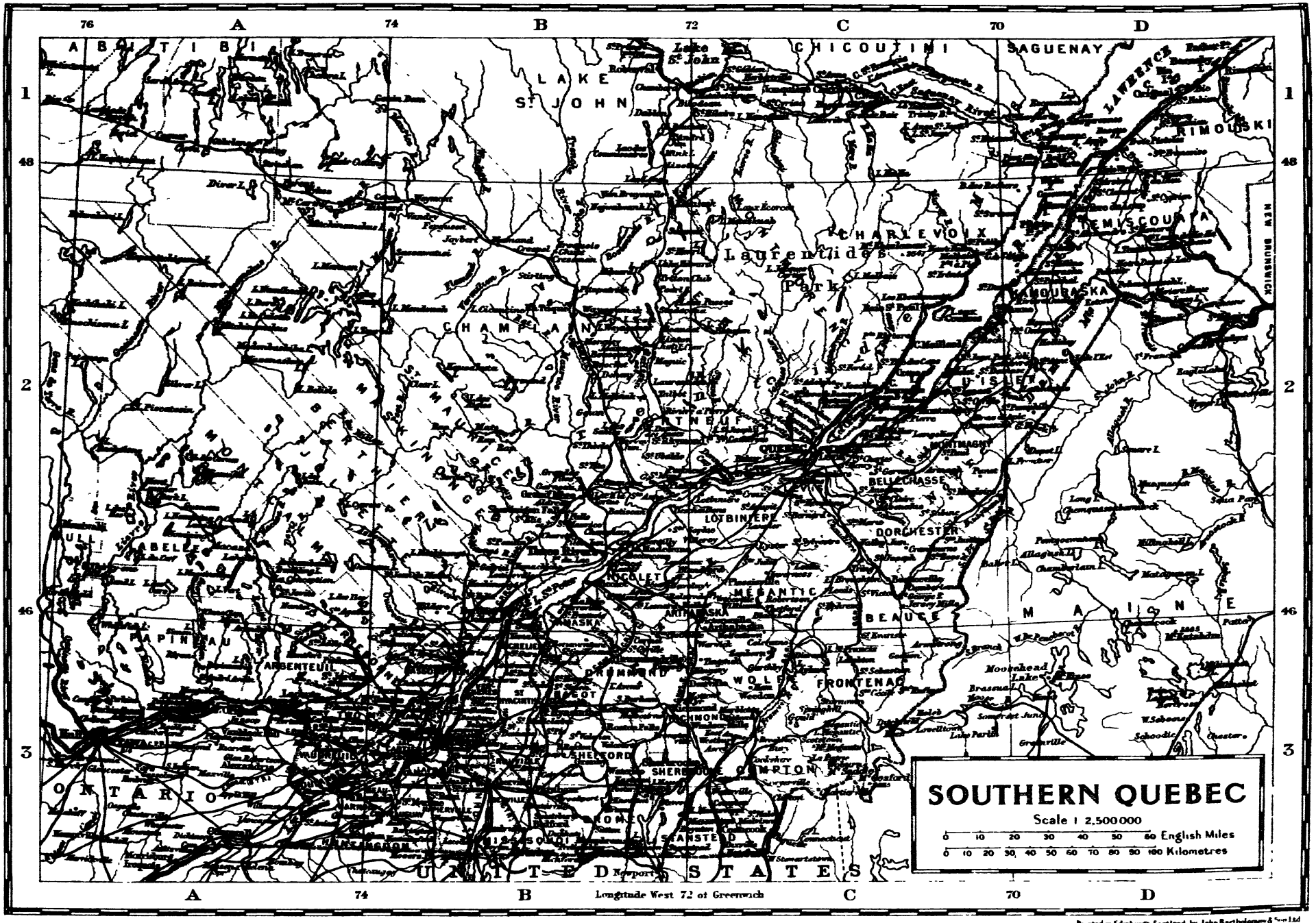

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PACIFIC OCEAN
Gulf of Alaska
ALASKA
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NORTH WEST TERRITORIES
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SASKATCHEWAN
MANITOBA
VANCOUVER ISLAND
Queen Charlotte Islands
WASHINGTON
OREGON
MONTANA
NORTH DAKOTA
SOUTH DAKOTA
UNITED STATES
Banks Island
Prince Albert Land
Victoria Island
Wollaston Land
Victoria Land
Viscount Melville Sound
Prince of Wales I.
Boothia Pen.
Gulf of Boothia
King William I.
Queen Maud Gulf
Coronation Gulf
Dolphin and Union Str.
Amundsen Gulf
Prince Albert Sd.
M'Clure Str.
Barrow Str.
Lancaster Sd.
Jones Sound
Lincoln Land
Devon Island
Brodeur Pen.
Gulf of Boothia
Arctic Circle
Great Slave Lake
Great Bear Lake
Athabasca L.
Lake Winnipeg
Lake Manitoba
Mackenzie R.
Yukon R.
Peace R.
Liard R.
Fraser R.
Columbia R.
Saskatchewan R.
Red R.
Athabasca R.
Churchill R.
Nelson R.
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Baffin Land
Melville I.
Eglinton I.
Cornwallis I.
Somerset I.
Boothia Pen.
Prince of Wales I.
Banks Island
Victoria Island
Wollaston Land
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King William I.



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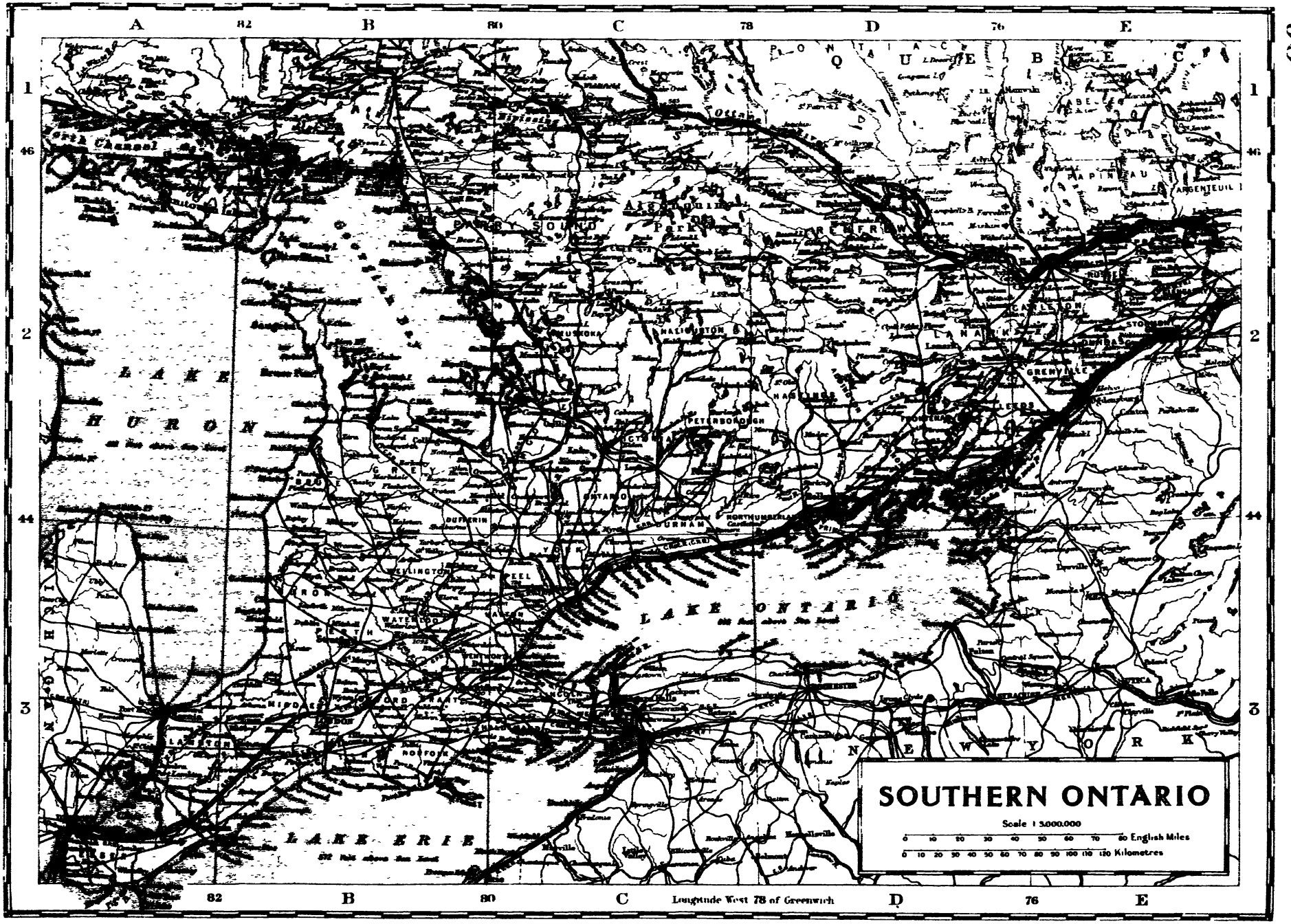


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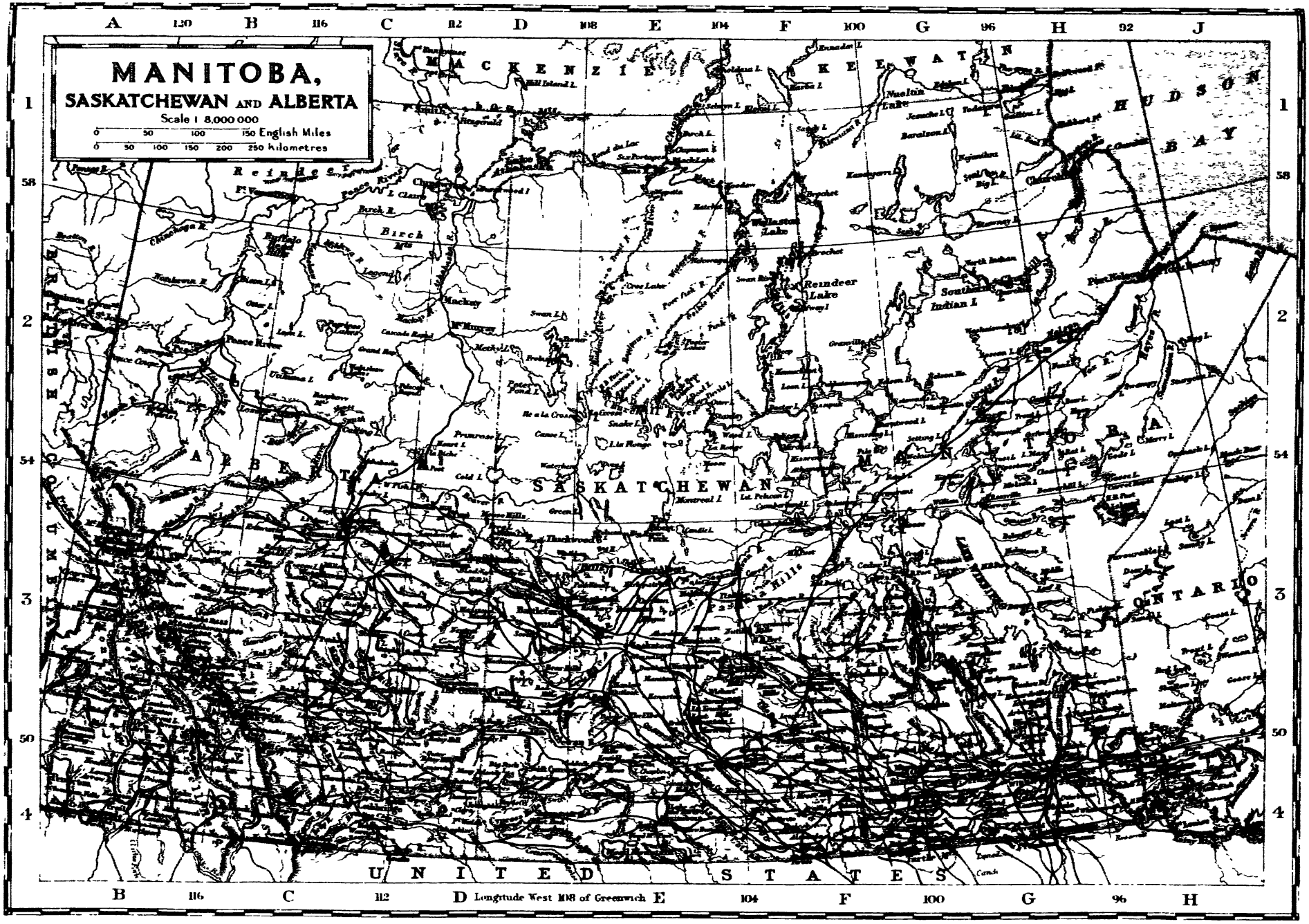


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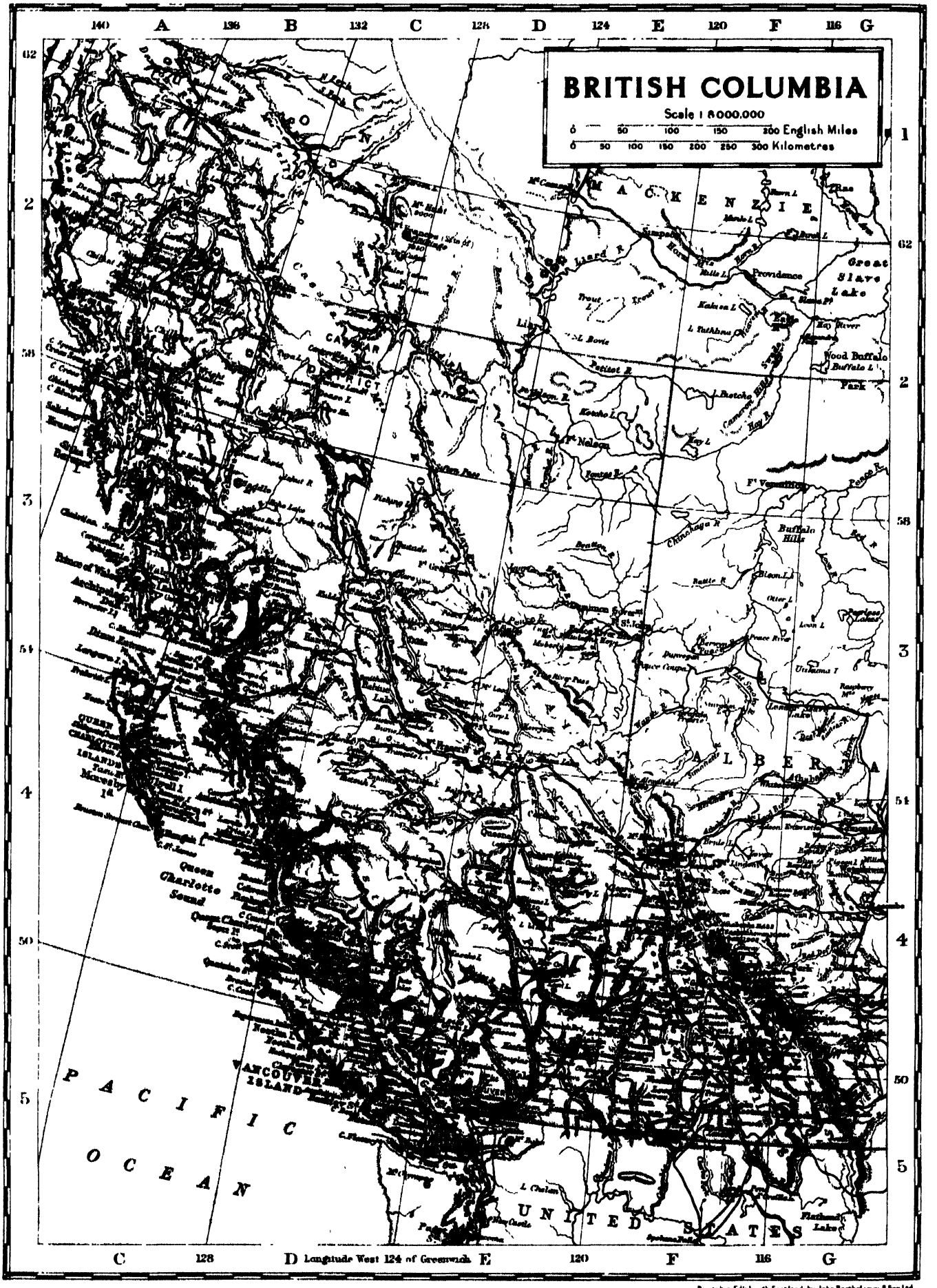


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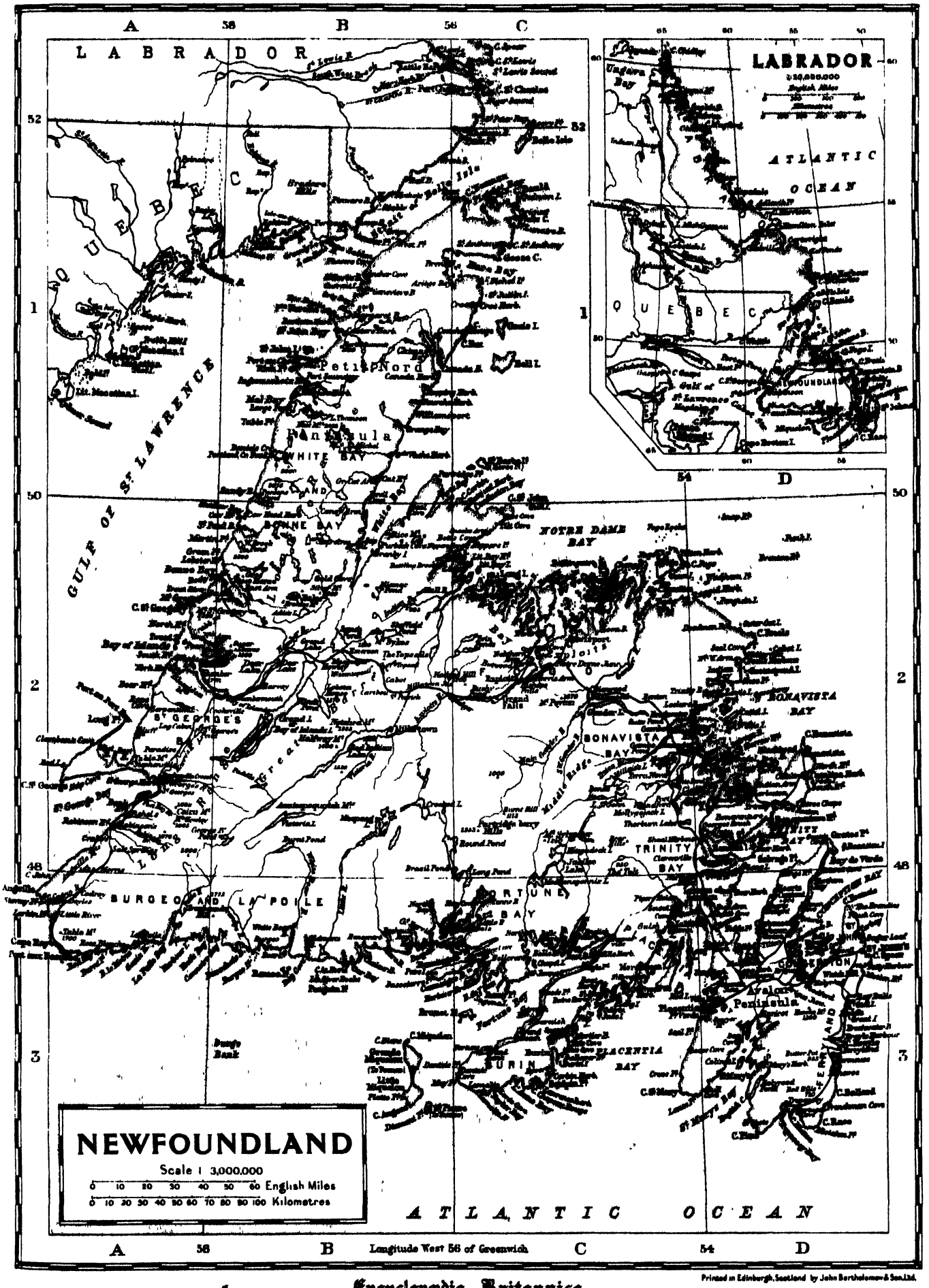


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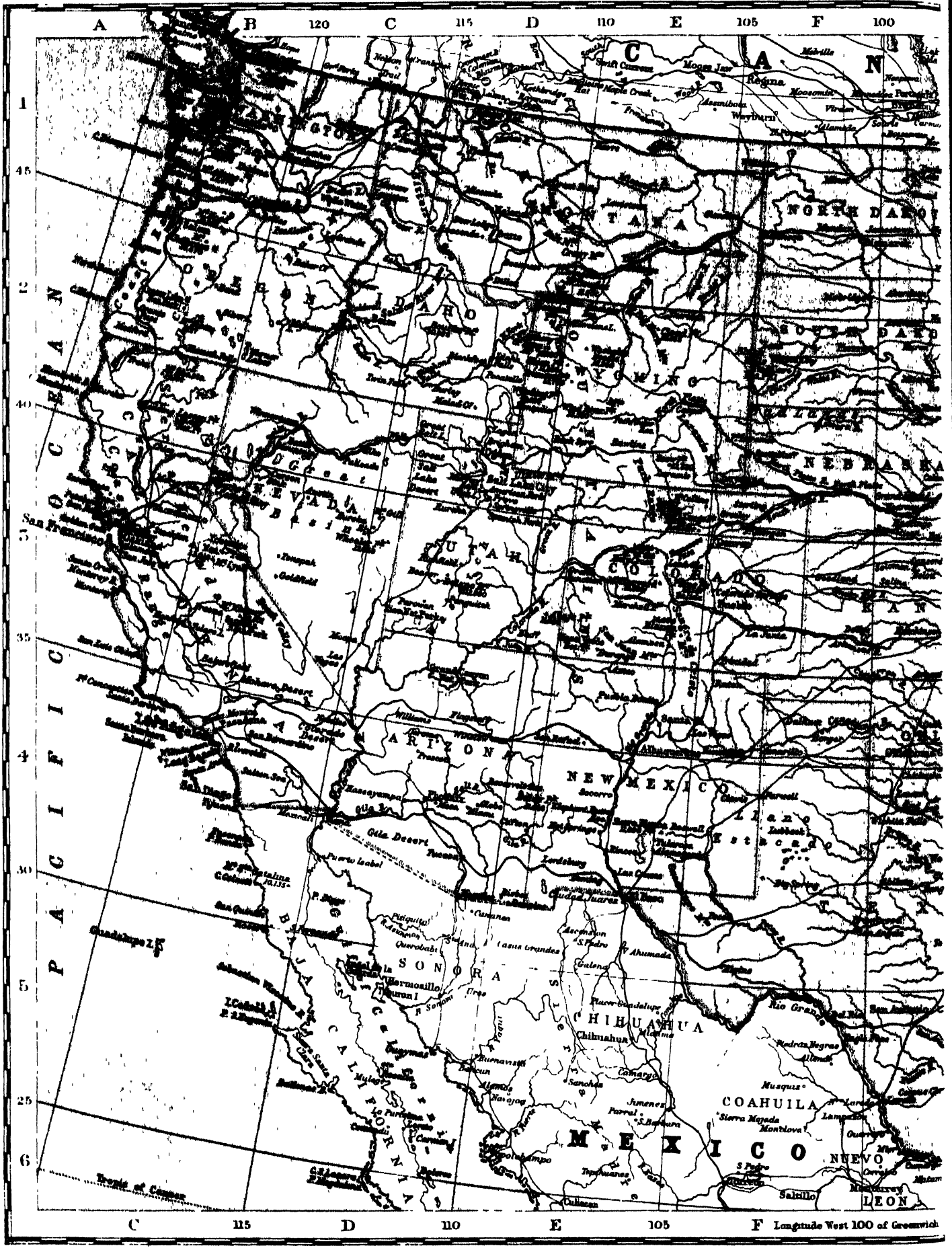
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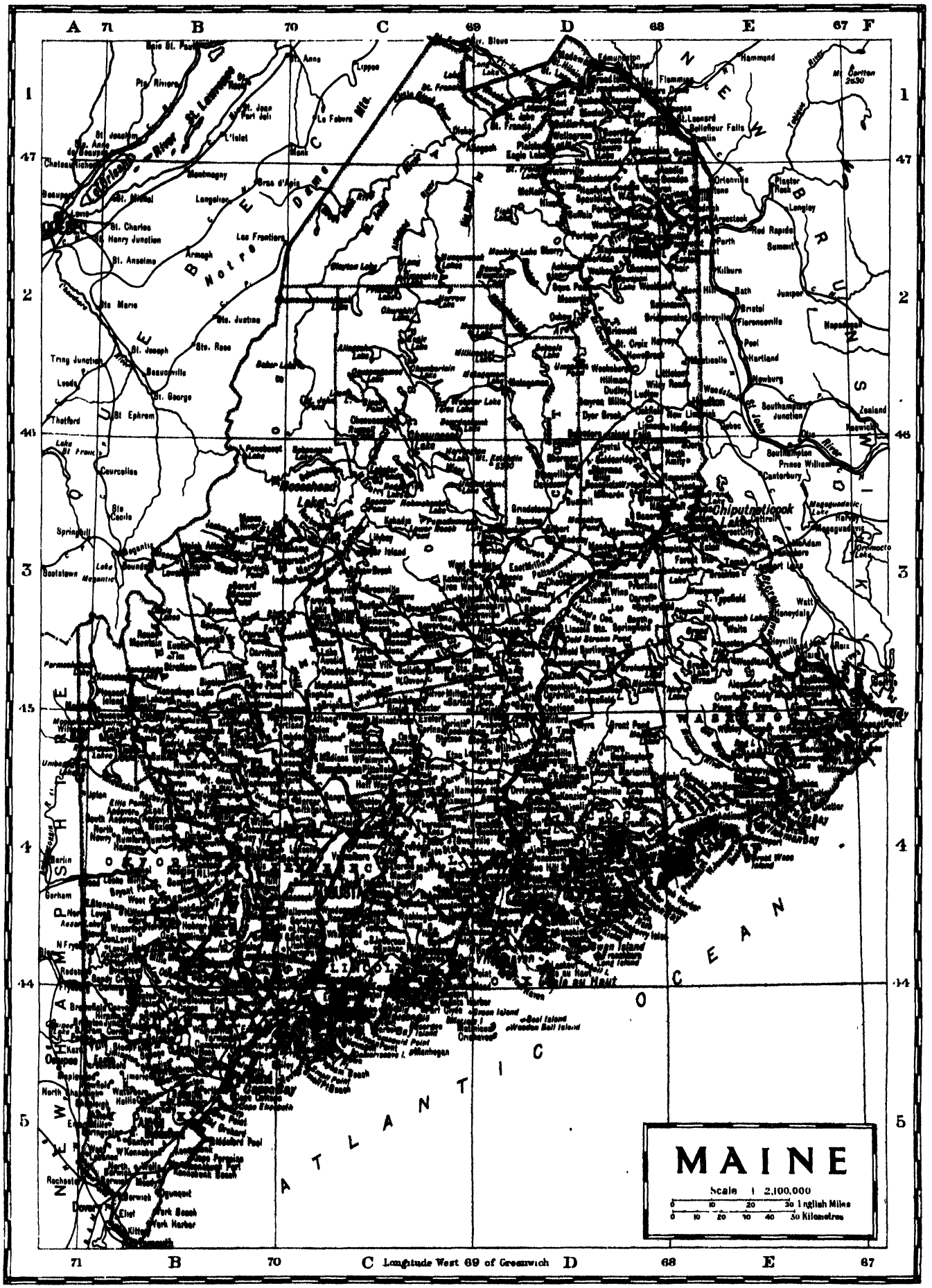


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SONORA
CHIHUAHUA
COAHUILA
NUEVO LEON
MEXICO
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San Francisco
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Saltillo
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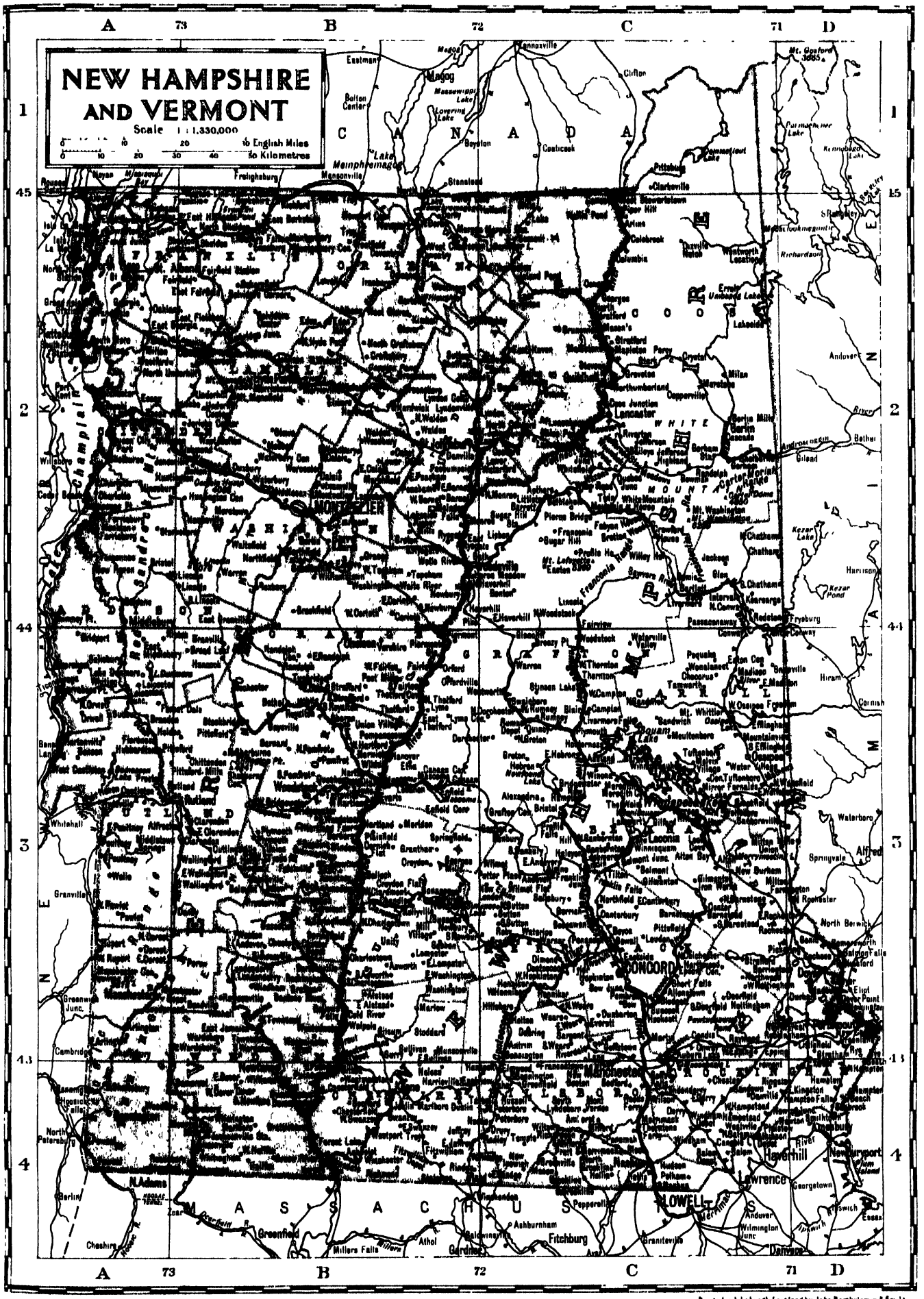


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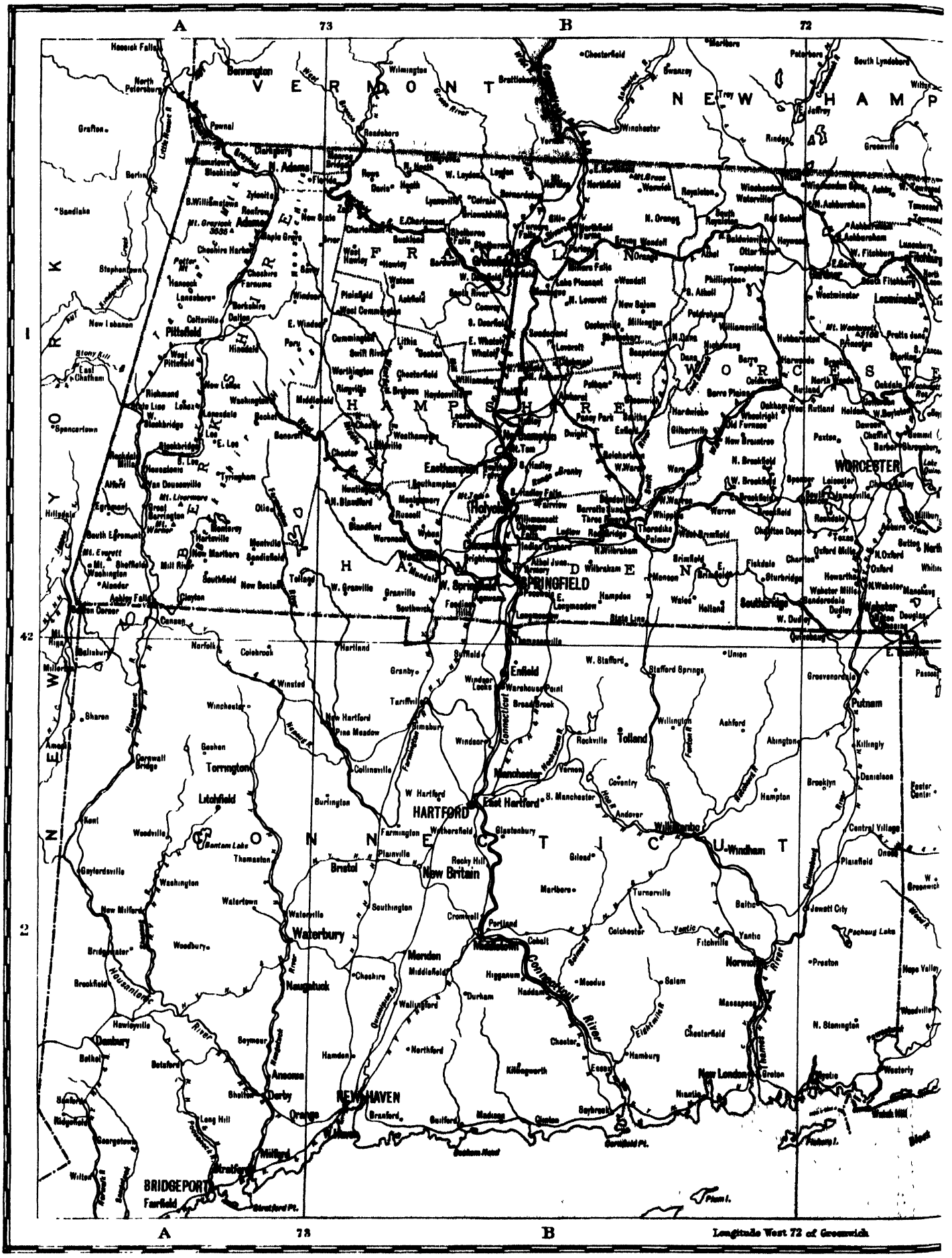


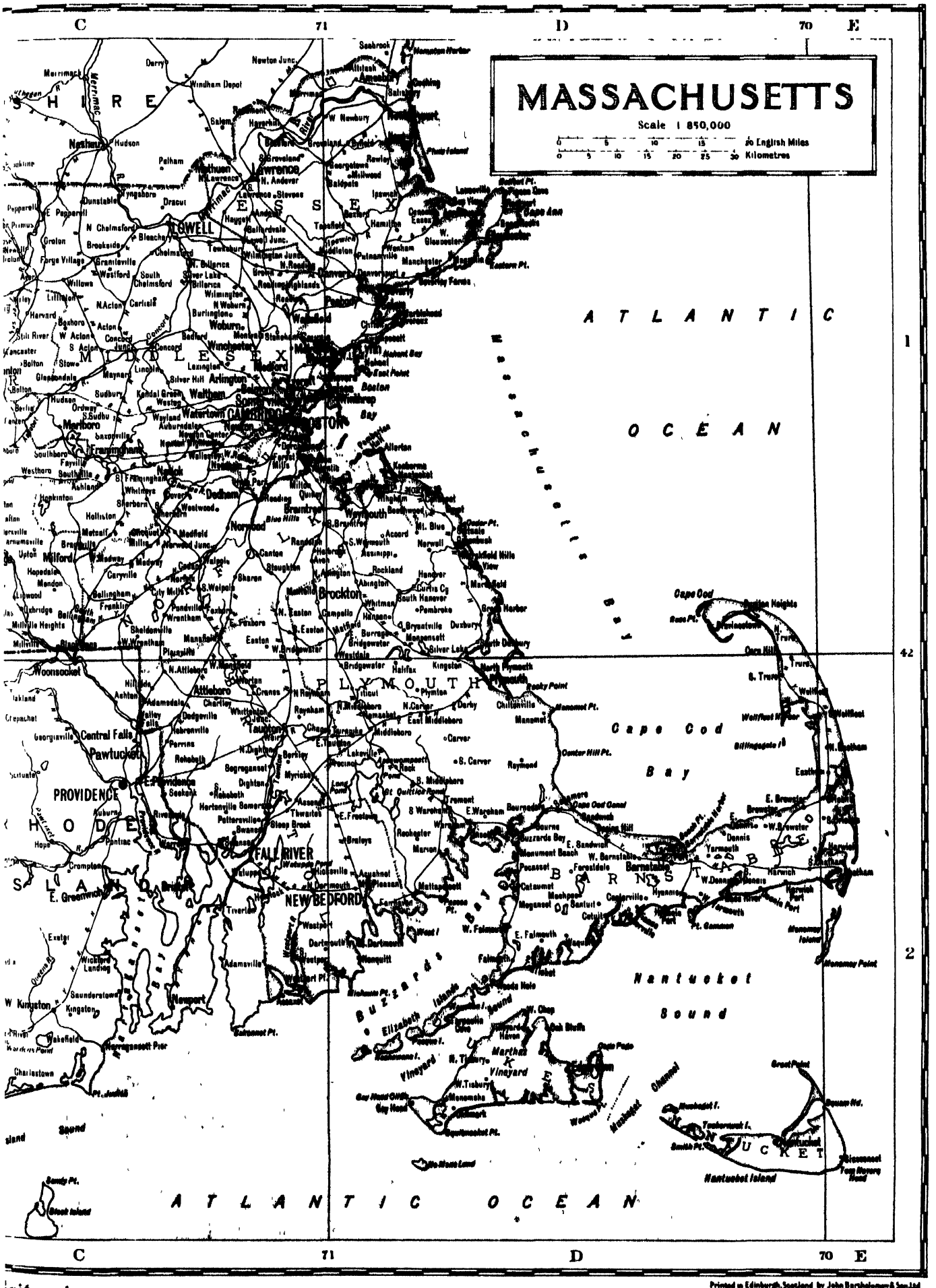
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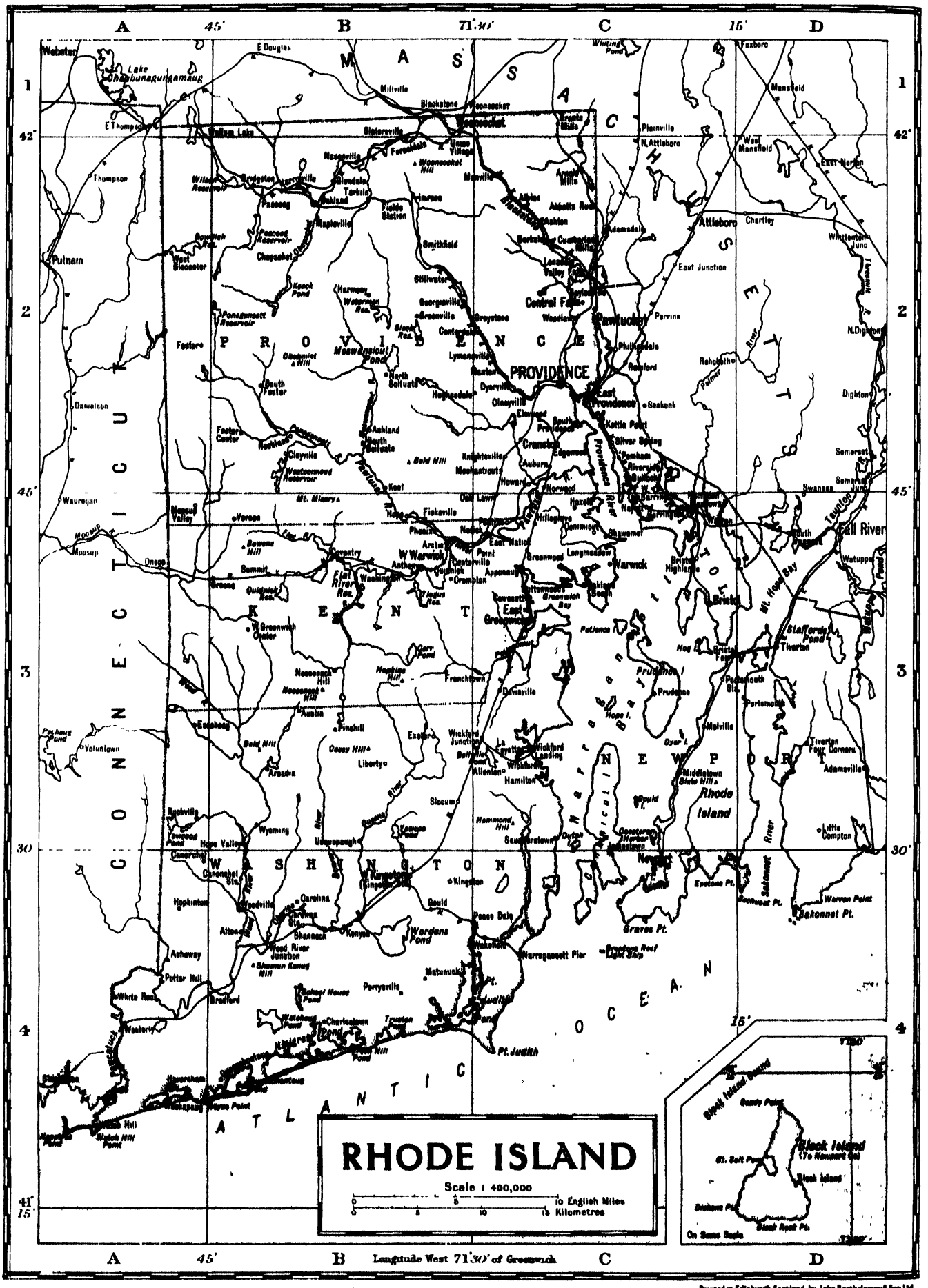


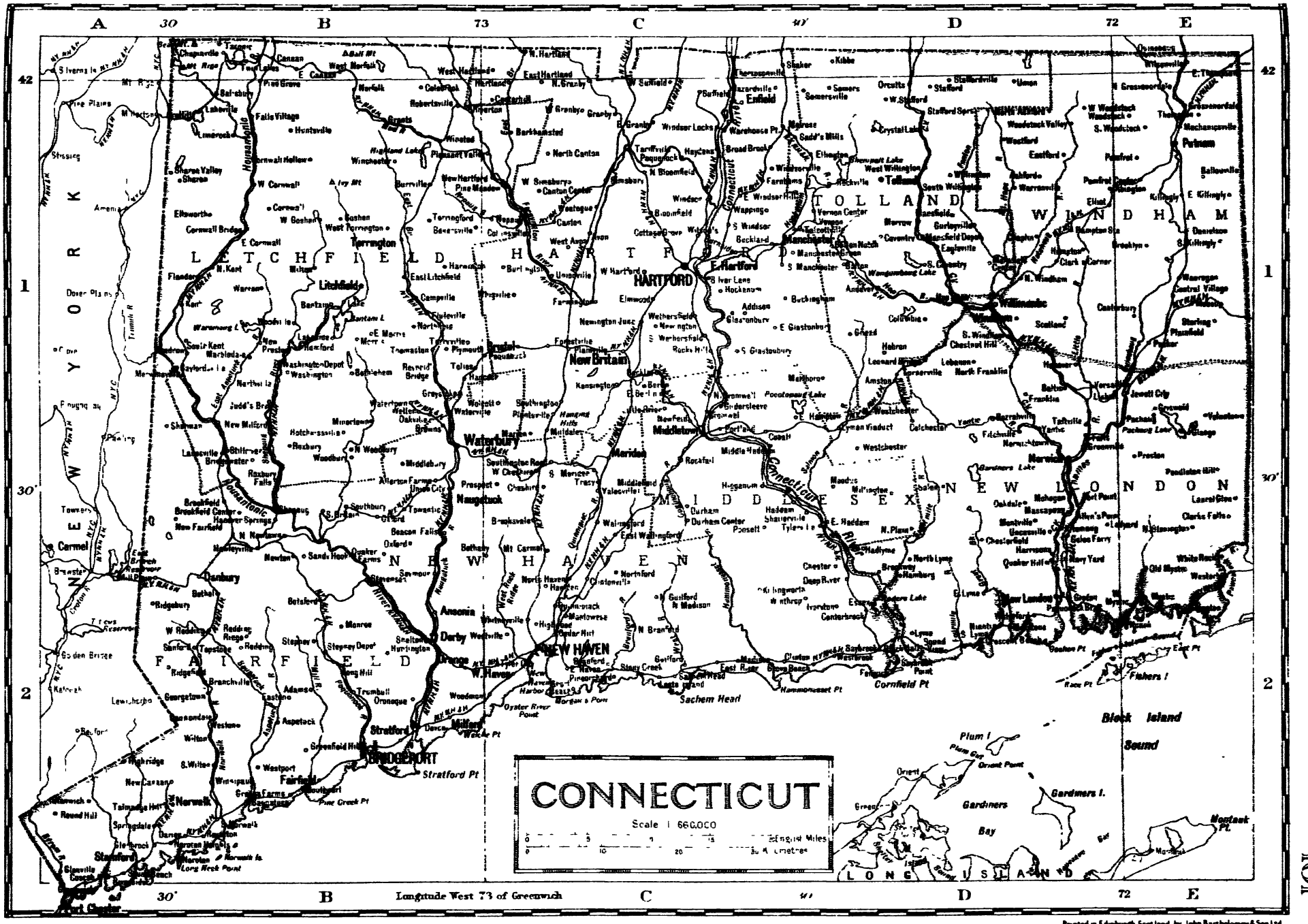
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Brattleboro
Wilmington
Chesterfield
Swanzey
Keene
Troy
Jaffrey
Peterboro
South Lyndeboro
Greenville
Winchester
Rindge
Hoosick Falls
North Petersburg
Grafton
Pownal
Williamstown
Stockbridge
North Adams
Florida
Readsboro
Halifax
Guilford
Northfield
Mt. Bruce
Warwick
Royalston
Winchendon
Gardner
Ashby
Templeton
Otter River
Baldwinville
Heywood
Fitchburg
Leominster
Sandisfield
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Shelburne Falls
Greenfield
Deerfield
Montague
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Orange
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Petersham
Hubbardston
Princeton
Stephentown
Cheshire Harbor
Cheshire Furnace
Hancock
Lanesboro
Berkshire
Windsor
Savoy
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Ashfield
Conway
Shelburne
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Sunderland
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Wendell
Lake Pleasant
New Salem
Millington
Petersham
Phillipston
Templeton
Gardner
Westminster
Lunenburg
Fitchburg
South Fitchburg
Pittsfield
Dalton
Hinsdale
Peru
Windsor
Cummington
Swift River
Lithia
Goshen
Chesterfield
Williamsburg
Haydenville
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Ware
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Thorndike
Warren
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West Brookfield
Spencer
Leicester
Auburn
Millbury
Sutton
North Oxford
Oxford
Webster
Douglas
Uxbridge
Whitinsville
Northbridge
Grafton
Millville
Blackstone
Mendon
Upton
Hopedale
Milford
Bellingham
Franklin
Medway
Norfolk County
Walpole
Foxboro
Norwood
Canton
Stoughton
Sharon
Mansfield
Attleboro
North Attleborough
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Lincoln
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Pawtucket
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Cranston
Johnston
Scituate
Foster
Glocester
Smithfield
North Smithfield
Woonsocket
Burrillville
Pascoag
Harrisville
Chepachet
Glendale
Hope
Scituate
Foster Center
Foster
Coventry
West Greenwich
Exeter
North Kingstown
Wickford
Narragansett Pier
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Peace Dale
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Saunderstown
Jamestown
Newport
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East Providence
Barrington
Warren
Bristol

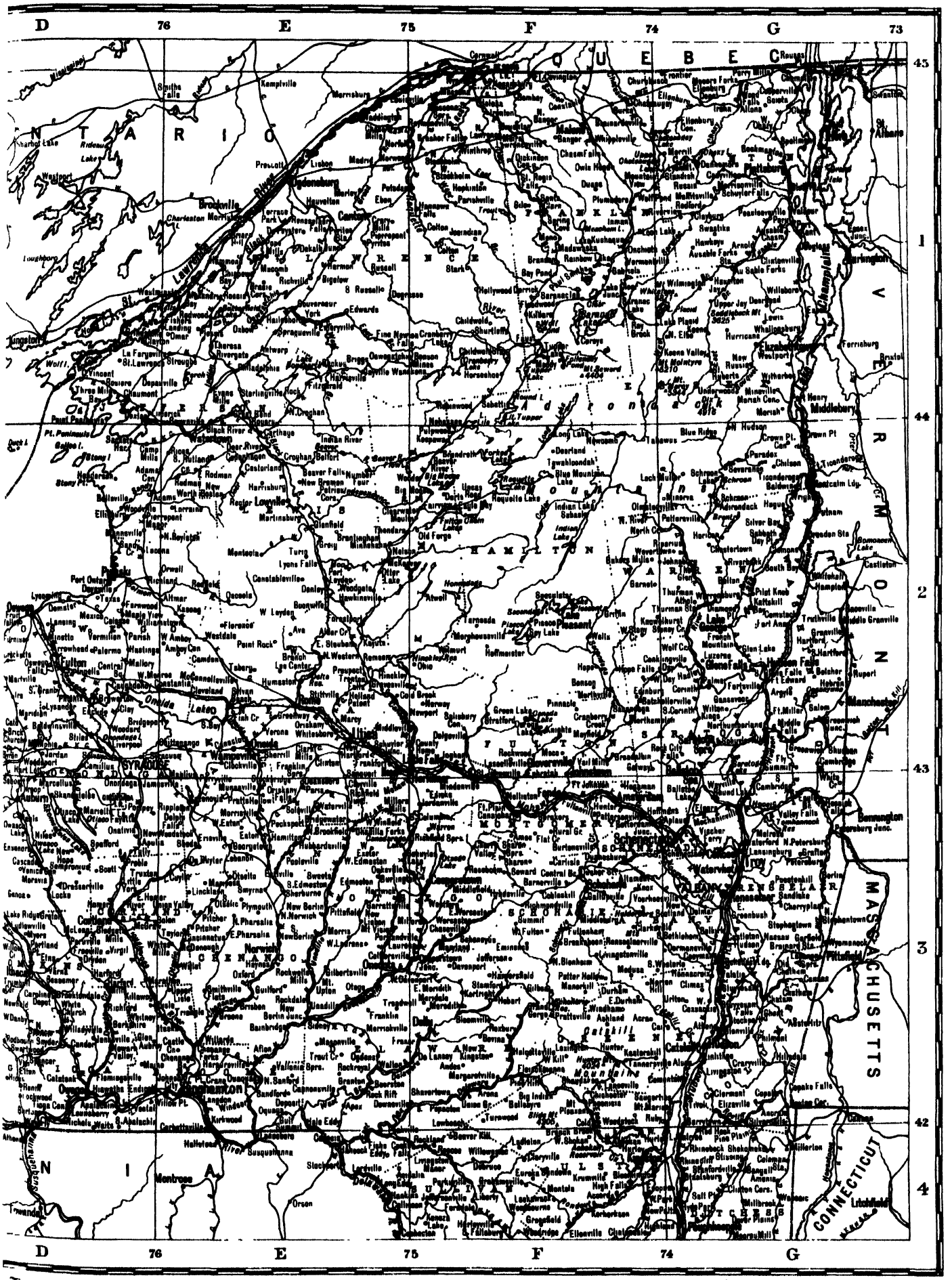


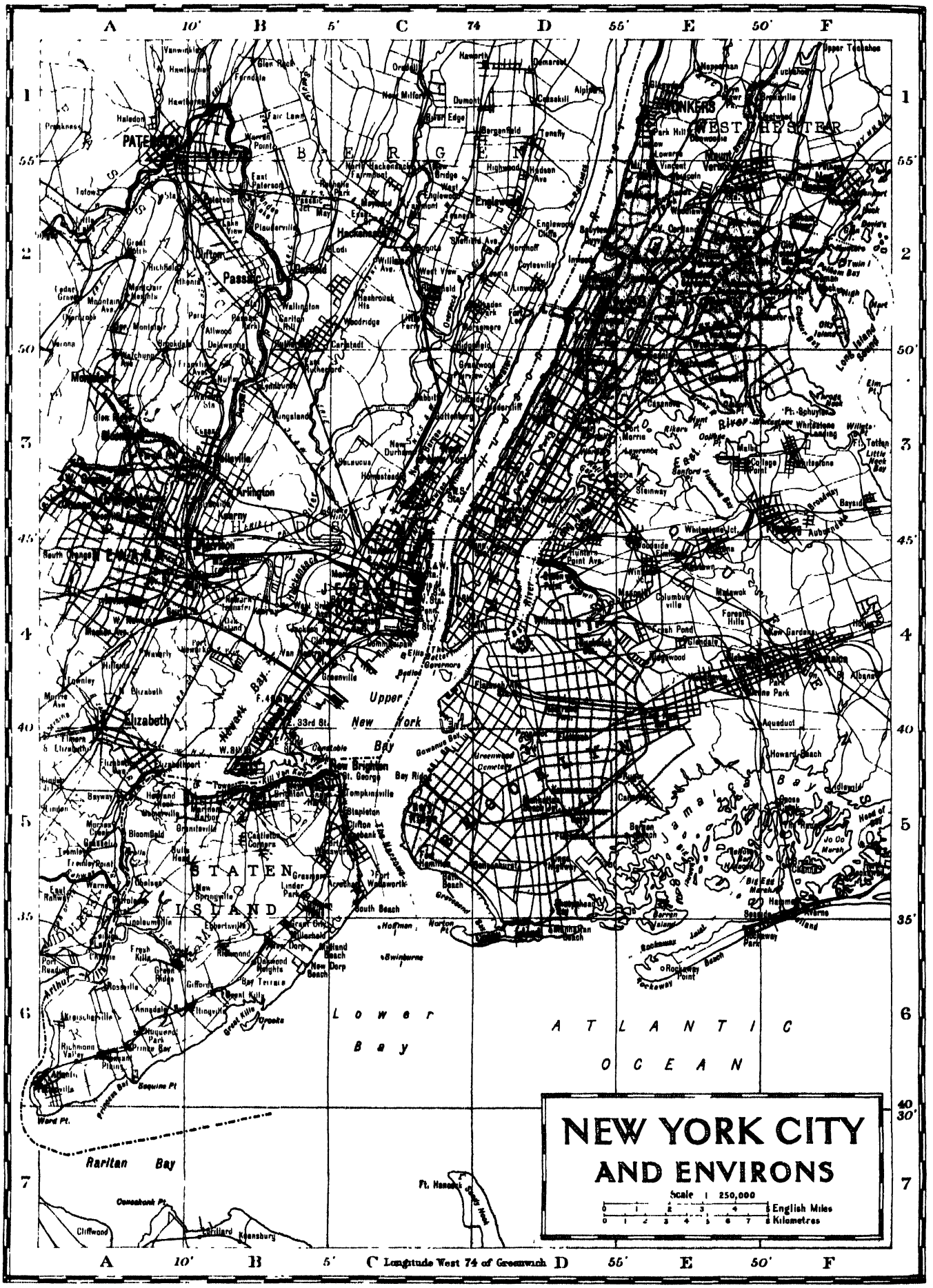
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RHODE ISLAND
Scale 1 400,000
10 English Miles
15 Kilometres
Longitude West 71°30' of Greenwich
Block Island
On Same Scale
PROVIDENCE
KENT
WASHINGTON
NEWPORT
BRISTOL
Rhode Island
CONNECTICUT
MASSACHUSETTS
ATLANTIC OCEAN
Narragansett Bay
Mt. Hope Bay
Point Judith
Watch Hill
Block Island
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Brenton Pt.
Beavertail Pt.
Gaspee Point
Warren Point
Grave Pt.
Pawtucket
Central Falls
Cranston
Warwick
East Greenwich
West Warwick
Woonsocket
Pawtucket
Attleboro
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Newport
Middletown
Portsmouth
Bristol
Warren
Barrington
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Pawtuxet River
Blackstone River
Seekonk River
Taunton River
Sakonnet River
Pocasset River
Woonasquatucket River
Moshassuck River
Pawtuxet
Natick
Apponaug
Oakland
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Hope I.
Dyer I.
Conanicut I.
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Matunuck
Westerly
Charlestown
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Watchaug Pond
Ninigret Pond
Point Judith Pond
Potter Hill
Ashaway
Hopkinton
Carolina
Shannock
Kenyon
Wordens Pond
Usquepaug
Hope Valley
Wyoming
Rockville
Arcadia
Exeter
Liberty
Voluntown
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Crompton
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Pascoag Reservoir
Pascoag
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Forestdale
Sherborn
Slatersville
Waterford
Whitin Reservoir
Wilson Reservoir
Fisher Reservoir
Sherman Farm
Sherman Ranug Hill
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Perryville
Potter Hill
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Carolina
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Matunuck
Point Judith
Watch Hill
Napatree Point
Misquamicut
Watchaug Pond
Ninigret Pond
Charlestown
Quonochontaug
Westerly
Pachaug Pond
Escoheag
Voluntown
Pine Hill
Nooseneck Hill
Kenyon
Usquepaug
Hope Valley
Wyoming
Rockville
Arcadia
Exeter
Liberty

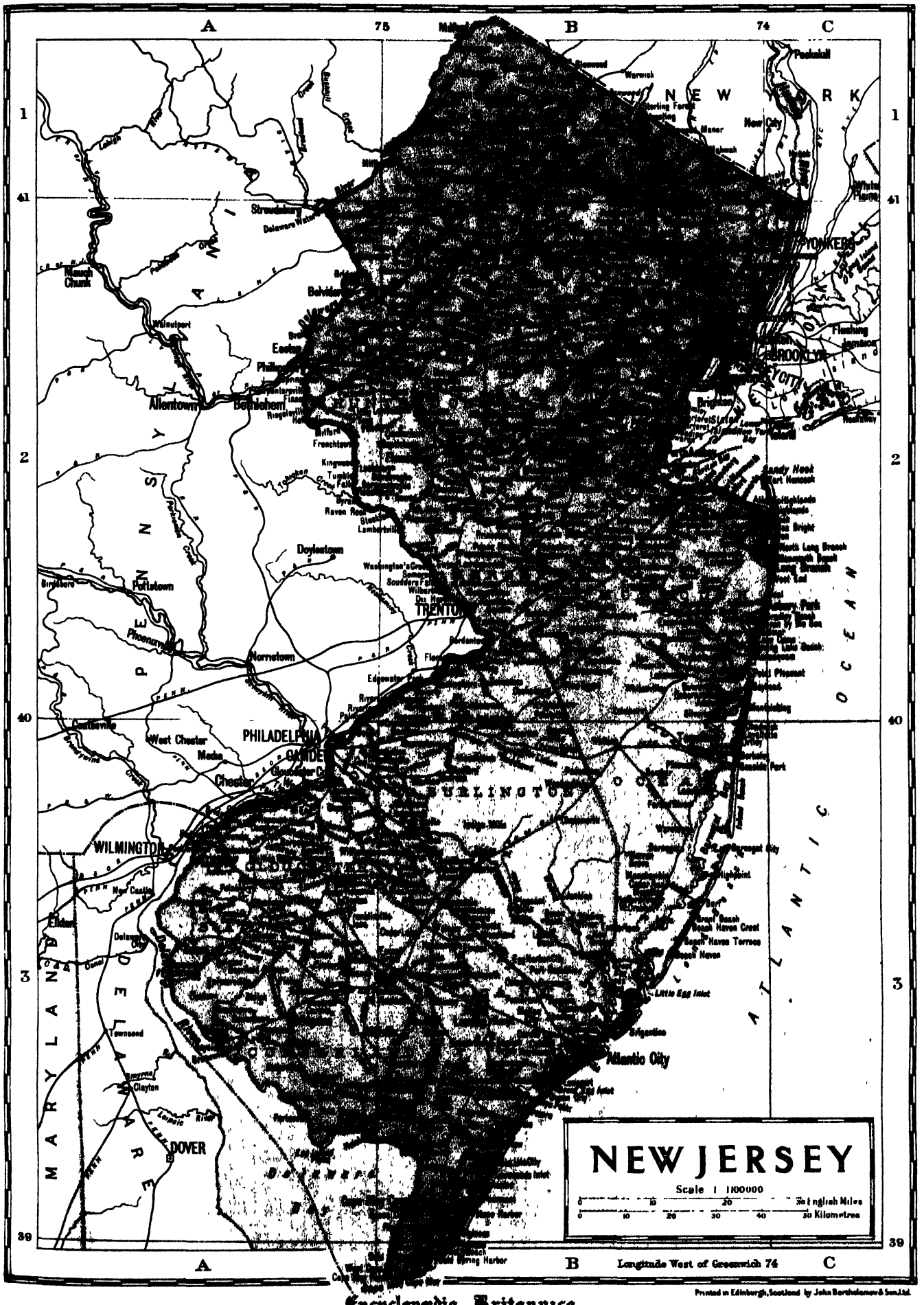

CONNECTICUT
Scale 1 660,000
English Miles
Kilometres
Longitude West 73 of Greenwich
LITCHFIELD
HARTFORD
TOLLAND
WINDHAM
NEW LONDON
MIDDLESEX
NEW HAVEN
FAIRFIELD
LONG ISLAND
Sound
Block Island
Sachem Head
Cornfield Pt
Stratford Pt
Fishers I
Plum I
Gardiners I.
Gardiners Bay
Montauk Pt.
Hartford
New Britain
Waterbury
Meriden
Middletown
Norwich
New London
New Haven
Bridgeport
Stamford
Norwalk
Danbury
Torrington
Litchfield
Willimantic
Manchester
Enfield
Windsor Locks
Thompsonville
Putnam
Thames R.
Connecticut R.
Housatonic R.
Naugatuck
Quinnipiac R.
Farmington R.
Hockanum R.
Scantic R.
Shetucket R.
Quinebaug R.
Pachaug R.
Yantic R.
Mianus R.
Saugatuck R.
Pequonnock R.
Poquonock
Tariffville
Simsbury
Granby
Canton
Barkhamsted
Winsted
Torrington
Litchfield
Bantam L.
Waramaug L.
Lake Waramaug
Highland Lake
Pleasant Valley
New Hartford
Pine Meadow
Burrville
Winchester
Colebrook
Robertsville
Norfolk
Canaan
West Norfolk
Salisbury
Lakeville
Falls Village
Huntsville
Cornwall Hollow
Sharon Valley
Sharon
Cornwall
Cornwall Bridge
Kent
Warren
Milton
Flanders
Dover Plains
Amenia
Sharon
Ellsworth
W Cornwall
W Goshen
Goshen
West Torrington
Torrington
Terryville
Plymouth
Thomaston
Harwinton
Burlington
Collinsville
Unionville
Farmington
Avon
Canton Center
Canton
Westogue
Simsbury
Weatogue
Windsor
Bloomfield
Wintonbury
Windsor Locks
Broad Brook
Warehouse Pt.
Gaddis Mills
Crystal Lake
Ellington
Shenipsit Lake
West Willington
Tolland
Vernon Center
Vernon
Rockville
Talcottville
Manchester
Buckland
Eastford
Pomfret
Woodstock Valley
Woodstock
Thompson
Mechanicsville
Quinebaug
Killingly
Dayville
Brooklyn
Hampton
Clark Corner
Windham
Willimantic
Scotland
Chaplin
Columbia
Hebron
Gilead
Bolton
Andover
Lake Hayward
Lake Wangumbaug
Coventry
Mansfield
Storrs
Mansfield Depot
Eagleville
Gurleyville
Chaplin
Natchaug R.
Shetucket R.
Yantic R.
Norwich
Taftville
Occum
Greeneville
Preston
Poquetanuck
Gales Ferry
Ledyard
Mystic
Old Mystic
Noank
Groton
New London
Fort Trumbull
Fort Point
Pequot
Waterford
Niantic
Oakdale
Montville
Uncasville
Chesterfield
Harrisons
Quaker Hill
Moodus
Millington
Salem
Hadlyme
Chester
Deep River
Essex
Old Lyme
Lyme
Saybrook
Westbrook
Clinton
Madison
Guilford
Stony Creek
Branford
North Haven
Wallingford
Durham
Durham Center
Haddam
Higganum
Portland
Middletown
Cromwell
Rocky Hill
Wethersfield
Newington
Newington Junction
Berlin
Kensington
Meriden
Southington
Plantsville
Hanging Hills
Cheshire
Prospect
Waterbury
Watertown
Oakville
Thomaston
Terryville
Plymouth
Bristol
Forestville
Plainville
New Britain
Farmington
Elmwood
West Hartford
Hartford
Wethersfield
Rocky Hill
Glastonbury
East Glastonbury
Addison
Buckingham


NEW YORK
Scale 1:600,000
English Miles
Kilometres
LAKE ONTARIO
LAKE ERIE
ATLANTIC OCEAN
Long Island Sound
CONNECTICUT
NEW JERSEY
PENNSYLVANIA
ONTARIO
Longitude West 77 of Greenwich

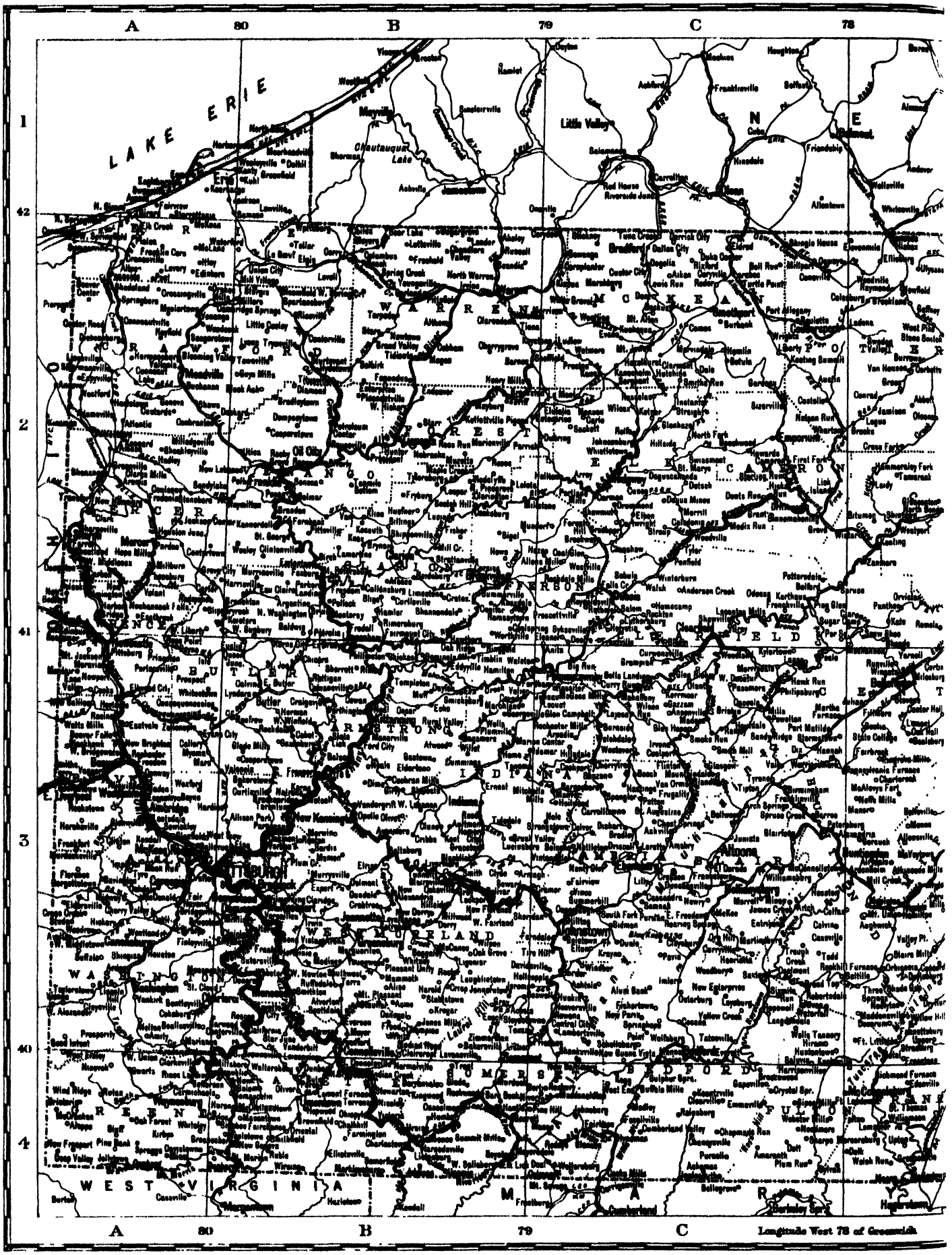

D
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ONTARIO
QUEBEC
VERMONT
NEW YORK
MASSACHUSETTS
CONNECTICUT
PENNSYLVANIA
Lake Ontario
Lake Champlain
Adirondack Mountains
Catskill Mountains
Onondaga Lake
Oneida Lake
Seneca Lake
Cayuga Lake
Canandaigua Lake
Keuka Lake
Otsego Lake
Schroon Lake
Lake George
Lake Placid
Mt. Marcy
5344
Mt. Seward
4405
Dix Mt.
4918
Whiteface Mt.
4867
Mt. Colden
4714
Mt. Haystack
4918
Mt. Marshall
4360
Mt. Redfield
3925
Mt. Belknap
3820
Mt. Molntyre
5270
Slide Mt.
4205
Overlook Mt.
3150
Plattsburg
Saranac Lake
Tupper Lake
Malone
Ogdensburg
Watertown
Utica
Syracuse
Rochester
Buffalo
Albany
Troy
Schenectady
Binghamton
Elmira
Corning
Hornell
Jamestown
Niagara Falls
Lockport
Oswego
Auburn
Ithaca
Geneva
Canandaigua
Batavia
Olean
Hudson
Poughkeepsie
Kingston
Newburgh
Middletown
Monticello
Liberty
Catskill
Hudson
Pittsfield
Bennington
Rutland
Middlebury
Ticonderoga
Saranac
Potsdam
Canton
Massena
Gouverneur
Carthage
Lowville
Boonville
Rome
Oneida
Cortland
Norwich
Oneonta
Cooperstown
Herkimer
Little Falls
Amsterdam
Gloversville
Johnstown
Saratoga Springs
Glens Falls
Hudson Falls
Whitehall
Granville
Manchester
Bennington
Pittsfield
Great Barrington
Litchfield
Torrington
Waterbury
Danbury
Stamford
Greenwich
Port Chester
New Rochelle
Mount Vernon
Yonkers
New York
Brooklyn
Jersey City
Newark
Elizabeth
Paterson
Hackensack
Passaic
Perth Amboy
New Brunswick
Trenton
Camden
Philadelphia
Wilkes-Barre
Scranton
Carbondale
Honesdale
Port Jervis
Milford
Stroudsburg
Easton
Bethlehem
Allentown
Reading
Harrisburg
Lancaster
York
Gettysburg
Chambersburg
Hagerstown
Frederick
Baltimore
Washington
Annapolis
Wilmington
Dover
Salisbury
Ocean City
Cape May
Atlantic City
Long Branch
Asbury Park
Red Bank
Freehold
Toms River
Lakewood
Hightstown
Princeton
Flemington
Phillipsburg
Belvidere
Hackettstown
Dover
Morristown
Summit
Plainfield
Rahway
Elizabeth
Perth Amboy
Metuchen
Somerville
Bridgewater
Raritan
Hopewell
Pennington
Lambertville
New Hope
Doylestown
Quakertown
Norristown
Chester
Media
Wilmington
Newark
Elkton
Havre de Grace
Aberdeen
Bel Air
Towson
Catonsville
Ellicott City
Laurel
Bowie
Upper Marlboro
Prince Frederick
Leonardtown
Hollywood
Waldorf
La Plata
Port Tobacco
Indian Head
Alexandria
Arlington
Falls Church
Fairfax
Manassas
Warrenton
Culpeper
Orange
Fredericksburg
Spotsylvania
Chancellorsville
Wilderness
Germanna Ford
Rapidan
Rappahannock
Shenandoah
Luray
Front Royal
Winchester
Martinsburg
Charles Town
Shepherdstown
Harpers Ferry
Brunswick
Point of Rocks
Leesburg
Middleburg
Upperville
Paris
Berryville
Boyce
Clarke
Frederick
Shenandoah
Page
Rockingham
Augusta
Rockbridge
Bath
Highland
Pendleton
Hardy
Grant
Mineral
Hampshire
Morgan
Berkeley
Jefferson
Loudoun
Fauquier
Rappahannock
Madison
Greene
Albemarle
Fluvanna
Louisa
Spotsylvania
Stafford
Prince William
Fairfax
Arlington
Alexandria
King George
Westmoreland
Northumberland
Lancaster
Richmond
Essex
King and Queen
King William
New Kent
Charles City
James City
York
Gloucester
Mathews
Middlesex
Caroline
Hanover
Henrico
Chesterfield
Powhatan
Goochland
Amelia
Nottoway
Dinwiddie
Prince George
Surry
Isle of Wight
Southampton
Sussex
Greensville
Brunswick
Lunenburg
Mecklenburg
Charlotte
Halifax
Pittsylvania
Campbell
Appomattox
Buckingham
Cumberland
Prince Edward
Amelia
Nottoway
Lunenburg
Mecklenburg
Charlotte
Halifax
Pittsylvania
Henry
Patrick
Franklin
Floyd
Montgomery
Pulaski
Giles
Craig
Botetourt
Roanoke
Bedford
Amherst
Nelson
Albemarle
Fluvanna
Goochland
Powhatan
Chesterfield
Henrico
New Kent
James City
York
Gloucester
Mathews
Middlesex
Essex
King and Queen
King William
Caroline
Hanover

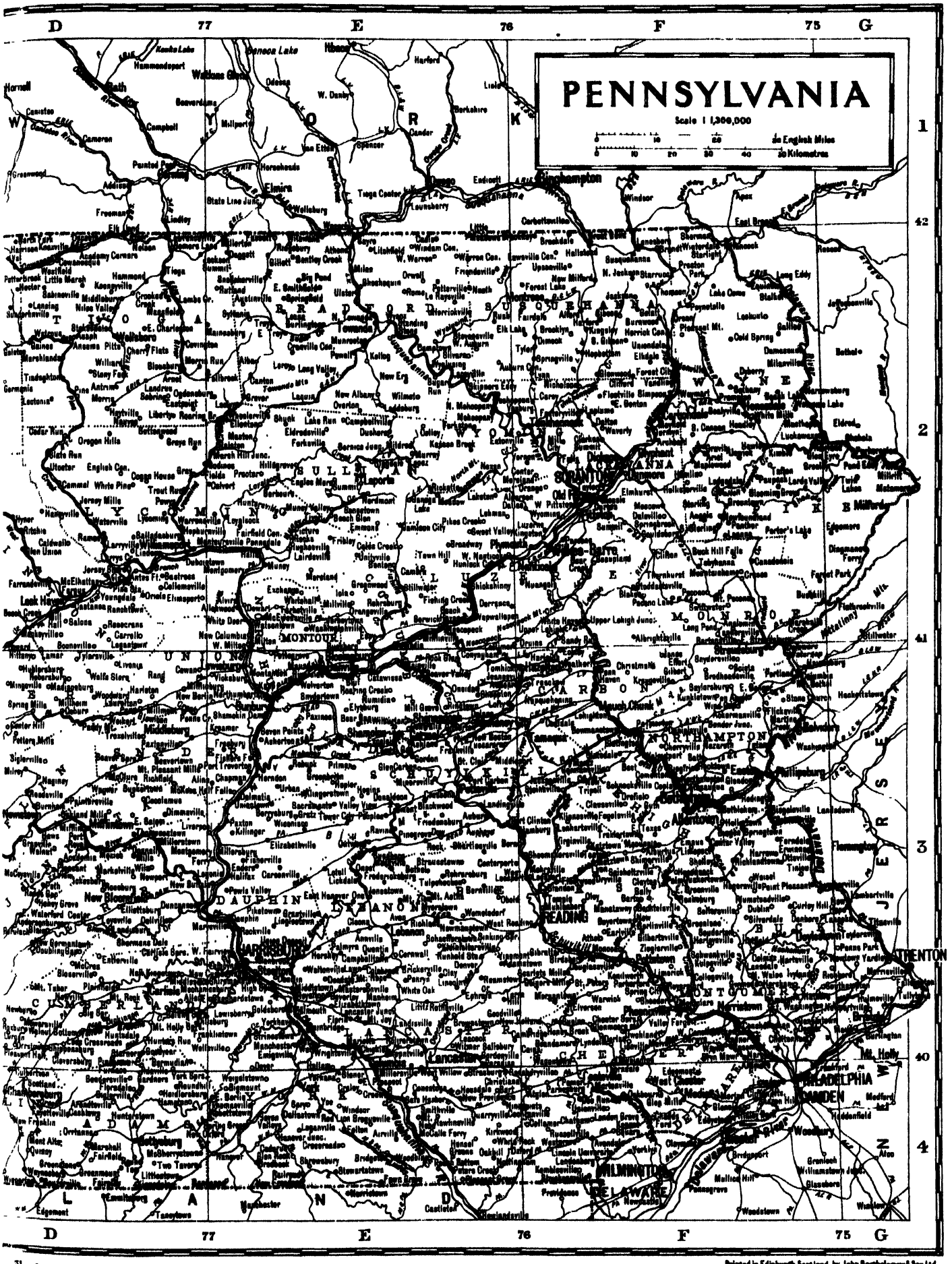


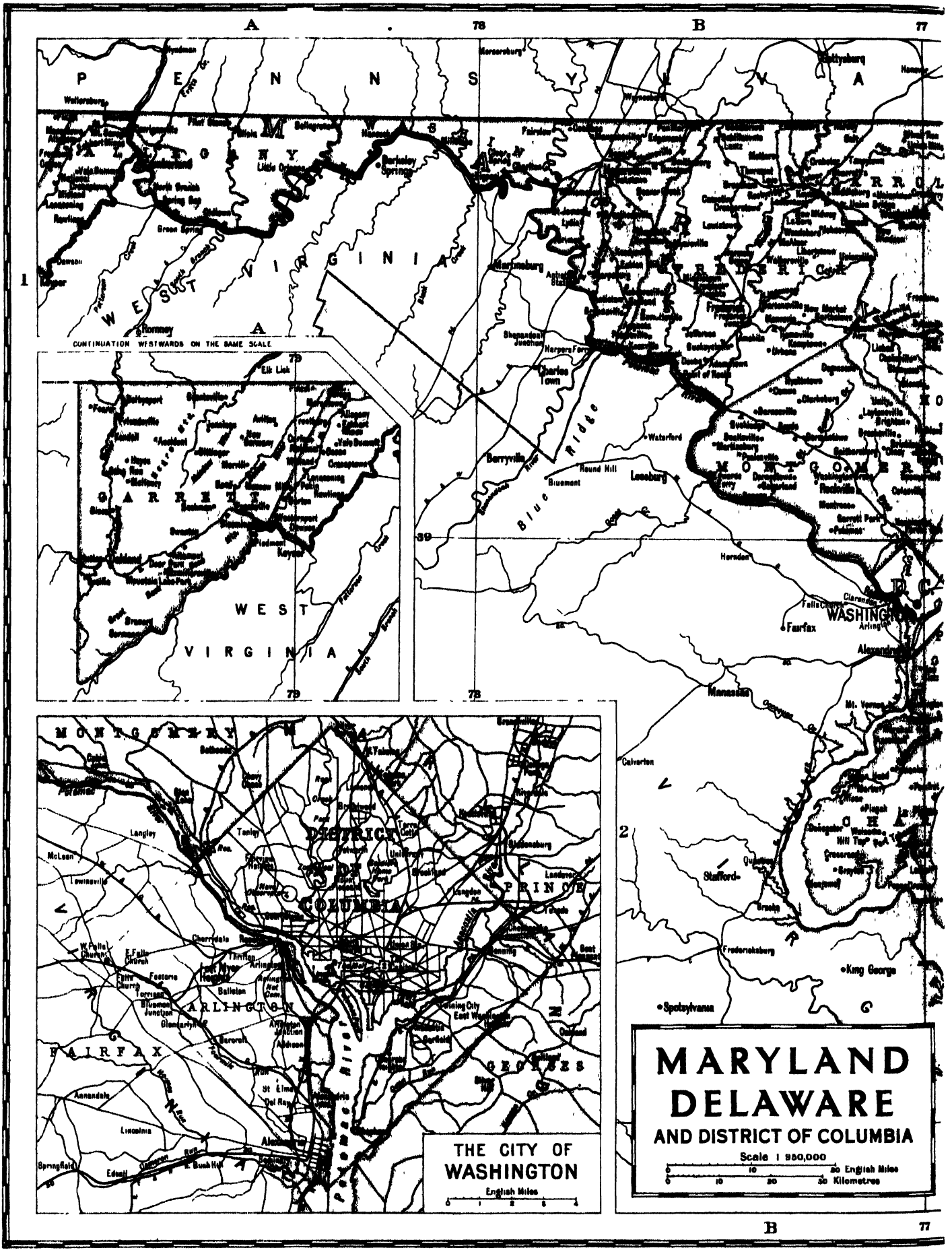
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A
80
B
79
C
78
1
42
2
41
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40
4
LAKE ERIE
Erie
Chautauqua Lake
Little Valley
Salamanca
Warren
Oil City
Franklin
Titusville
Meadville
Corry
Union City
Edinboro
Girard
Conneaut
Ashtabula
Jamestown
Olean
Bradford
Kane
Ridgway
Clearfield
Punxsutawney
Brookville
Kittanning
Butler
Pittsburgh
Allegheny
Monongahela
Youghiogheny
Beaver
Washington
Uniontown
Connellsville
Somerset
Johnstown
Altoona
Bedford
Huntingdon
Cumberland
Hagerstown
Berkeley Springs
Martinsburg
Keyser
Oakland
Grafton
Fairmont
Clarksburg
Morgantown
Wheeling
Parkersburg
Charleston
Gauley Bridge
Hinton
Princeton
Bluefield
Welch
Williamson
Logan
Huntington
Point Pleasant
Ripley
Ravenswood
Spencer
Sutton
Weston
Buckhannon
Elkins
Petersburg
Romney
Moorefield
Franklin
Monterey
Staunton
Lexington
Buena Vista
Covington
Clifton Forge
Iron Gate
Low Moor
Hot Springs
Warm Springs
Monterey
Harrisonburg
Winchester
Front Royal
Luray
Shenandoah
Strasburg
Woodstock
Edinburg
Mount Jackson
New Market
Broadway
Timberville
Bridgewater
Dayton
Harrisonburg
Port Republic
Waynesboro
Fishersville
Crozet
Charlottesville
Scottsville
Gordonsville
Orange
Culpeper
Warrenton
Fredericksburg
Manassas
Alexandria
Washington
Baltimore
Annapolis
Frederick
Hagerstown
Chambersburg
Gettysburg
Carlisle
Harrisburg
Lebanon
Reading
Pottsville
Shamokin
Sunbury
Lewisburg
Milton
Williamsport
Lock Haven
Renovo
Emporium
Kane
Ridgway
Brockway
DuBois
Clearfield
Curwensville
Philipsburg
Bellefonte
State College
Lewistown
Mifflin
Huntingdon
Tyrone
Hollidaysburg
Altoona
Ebensburg
Carrolltown
Patton
Barnesboro
Spangler
Portage
Cresson
Loretto
Ashville
Cassandra
Nanty Glo
Johnstown
Conemaugh
Saltsburg
Blairsville
Indiana
Kittanning
Ford City
Leechburg
Apollo
Vandergrift
New Kensington
Tarentum
Natrona
Aspinwall
Sharpsburg
Etna
Millvale
Bellevue
Avalon
Ben Avon
Emsworth
Sewickley
Coraopolis
Crafton
Ingram
Carnegie
Bridgeville
Mount Lebanon
Dormont
Brookline
Beechview
Mount Washington
Homestead
Braddock
Rankin
Wilkinsburg
Edgewood
Swissvale
Turtle Creek
Wilmerding
East Pittsburgh
Monroeville
Penn
Irwin
North Huntingdon
Jeannette
Greensburg
Latrobe
Derry
Ligonier
Donegal
Mount Pleasant
Scottdale
Connellsville
Dunbar
Uniontown
Brownsville
Fayette City
Belle Vernon
Monessen
Charleroi
Donora
Monongahela
Washington
Canonsburg
Carnegie
Bridgeville
Mount Lebanon
Dormont
Brookline
Beechview
Mount Washington
Homestead
Braddock
Rankin
Wilkinsburg
Edgewood
Swissvale
Turtle Creek
Wilmerding
East Pittsburgh
Monroeville
Penn
Irwin
North Huntingdon
Jeannette
Greensburg
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Derry
Ligonier
Donegal
Mount Pleasant
Scottdale
Connellsville
Dunbar
Uniontown
Brownsville
Fayette City
Belle Vernon
Monessen
Charleroi
Donora
Monongahela
Washington
Canonsburg
WEST VIRGINIA
MARYLAND
Longitude West 78 of Greenwich


PENNSYLVANIA
Scale 1 1,300,000
20 English Miles
20 Kilometres
D 77 E 76 F 75 G
1
42
2
41
3
40
4
Binghamton
Elmira
Williamsport
Scranton
Wilkes-Barre
Allentown
Bethlehem
Easton
Reading
Harrisburg
Lancaster
York
Chambersburg
Gettysburg
PHILADELPHIA
CAMDEN
WILMINGTON
DELAWARE
TRENTON
Mt. Holly
Woodbury
Pittsburgh
Erie
Oil City
Titusville
Meadville
Johnstown
Altoona
Bedford
Uniontown
Washington
Greensburg
New Castle
Butler
Indiana
Kittanning
Ebensburg
Huntingdon
Lewistown
Mifflintown
Sunbury
Shamokin
Mt. Carmel
Pottsville
Hazleton
Tamaqua
Mauch Chunk
Stroudsburg
Milford
Honesdale
Carbondale
Susquehanna
Montrose
Towanda
Wellsboro
Coudersport
Ridgway
Kane
Warren
Jamestown
Franklin
Oil City
Clarion
Brookville
Punxsutawney
Somerset
Connellsville
Monongahela
Waynesburg
Carmichaels
Rices Landing
Kittanning
Apollo
Saltsburg
Derry
Latrobe
Ligonier
Greensburg
Irwin
Wilkinsburg
Pittsburgh
Sewickley
Aliquippa
Beaver
Rochester
Ambridge
Freedom
Conway
Monaca
Beaver Falls
New Brighton
Darlington
Zelienople
Harmony
Evans City
Butler
Mars
Slippery Rock
Grove City
Mercer
Sharon
Farrell
Sharpsville
Hermitage
Greenville
Transfer
Sharpsville
Mercer
Grove City
Slippery Rock
Butler
Evans City
Harmony
Zelienople
Portersville
Prospect
Mars
Valencia
Evans City
Butler



MARYLAND
DELAWARE
AND DISTRICT OF COLUMBIA

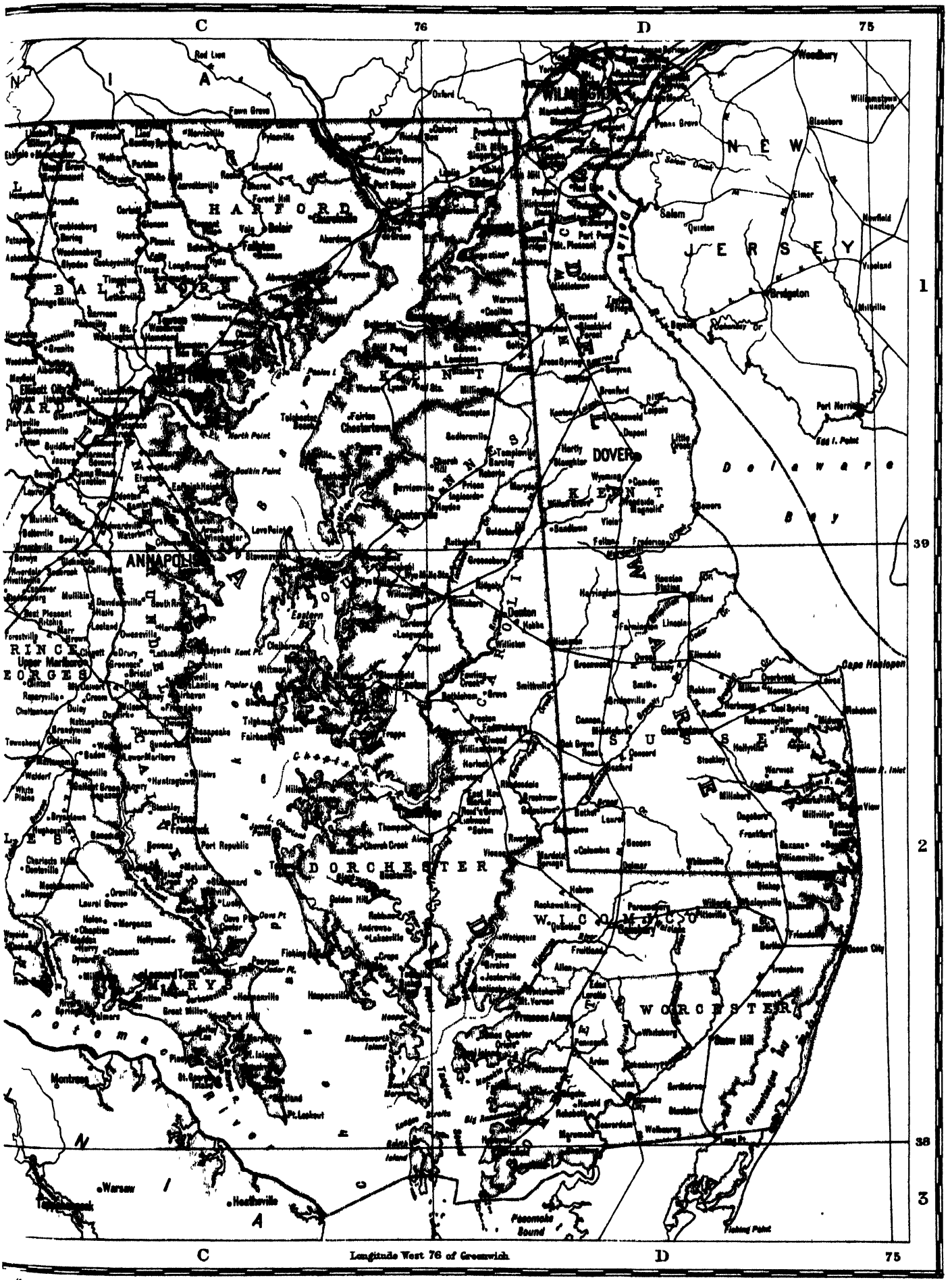
Scale 1 950,000

0 10 20 30 English Miles

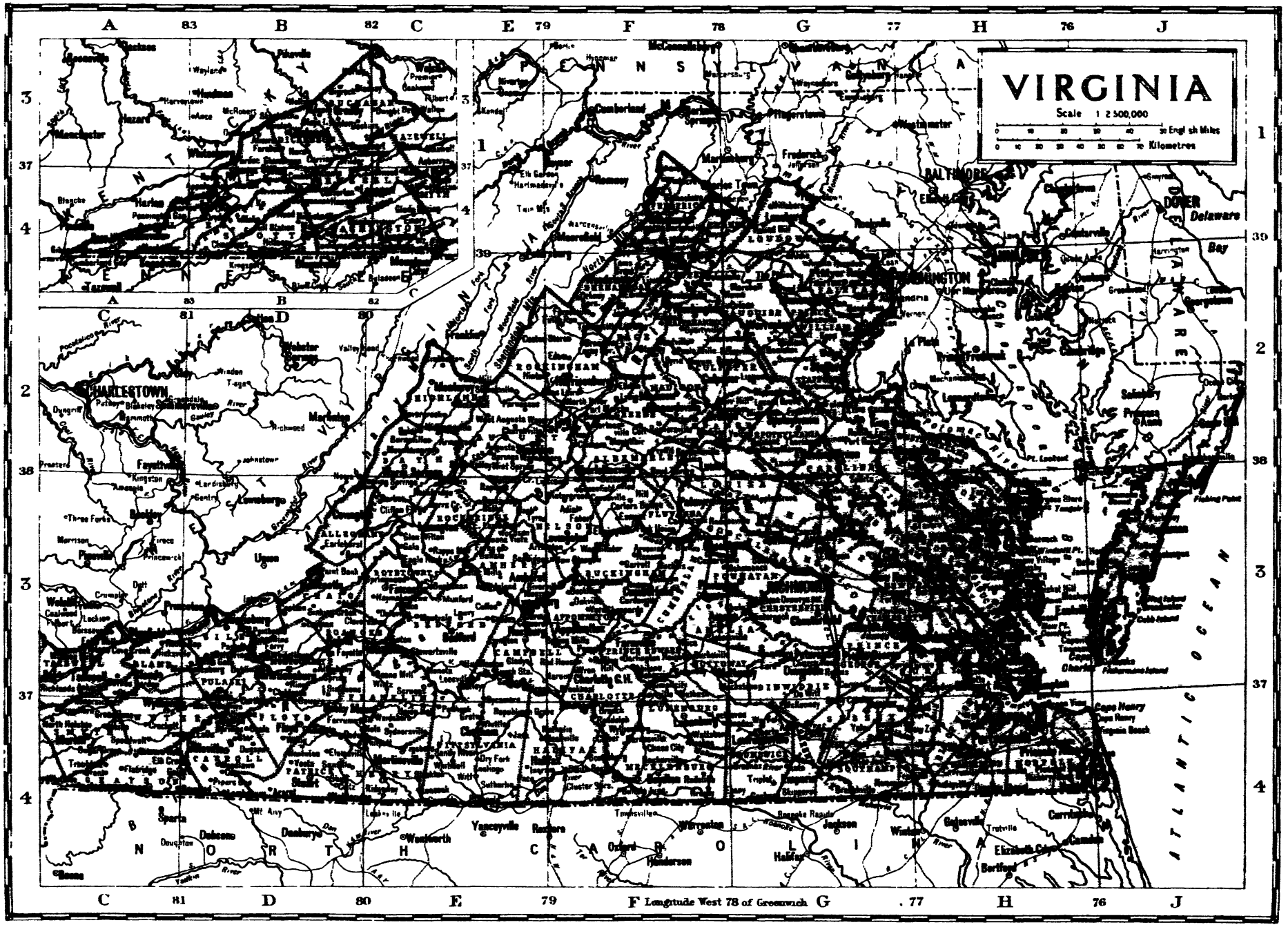
0 10 20 30 Kilometres

THE CITY OF WASHINGTON

English Miles

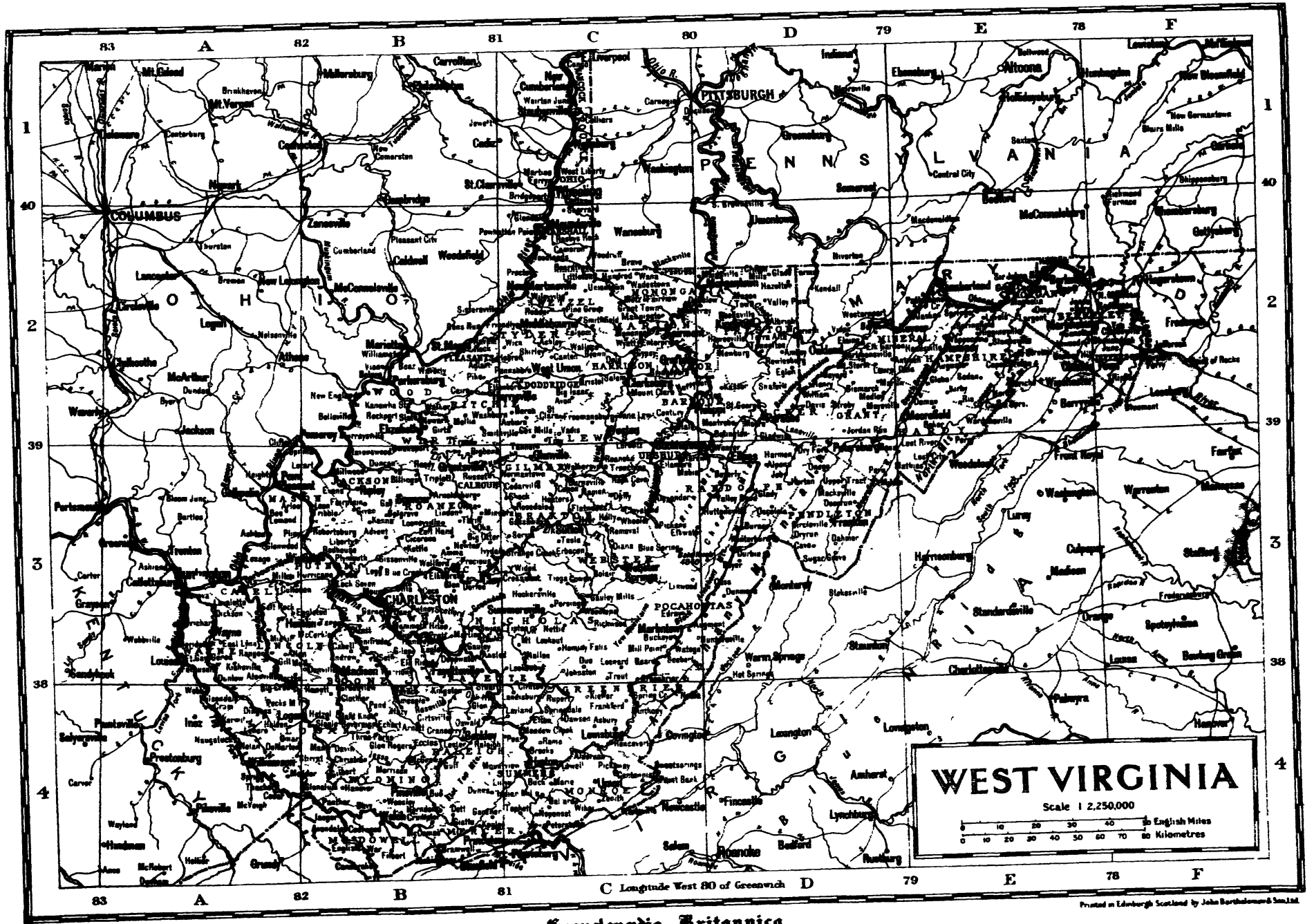


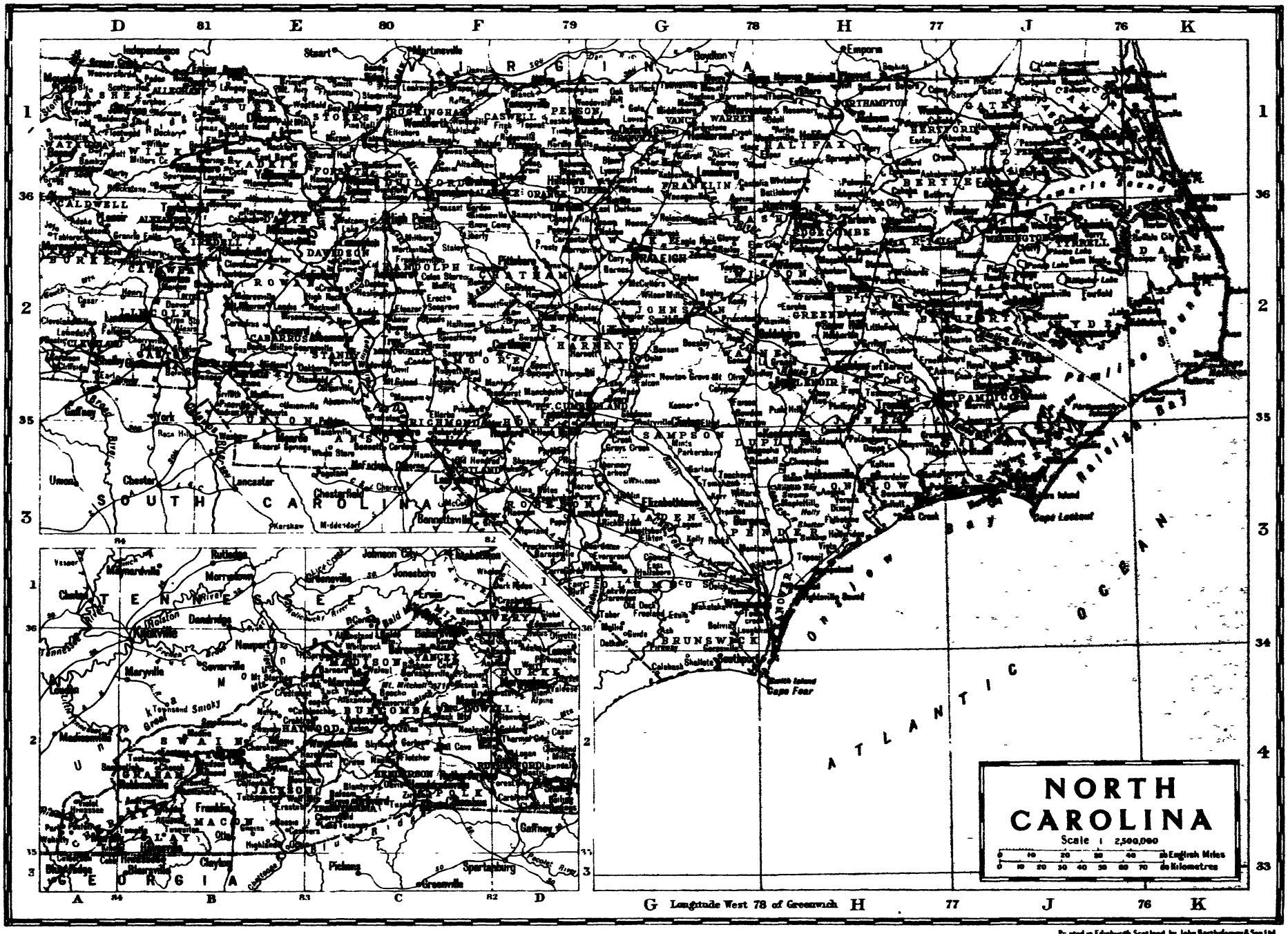
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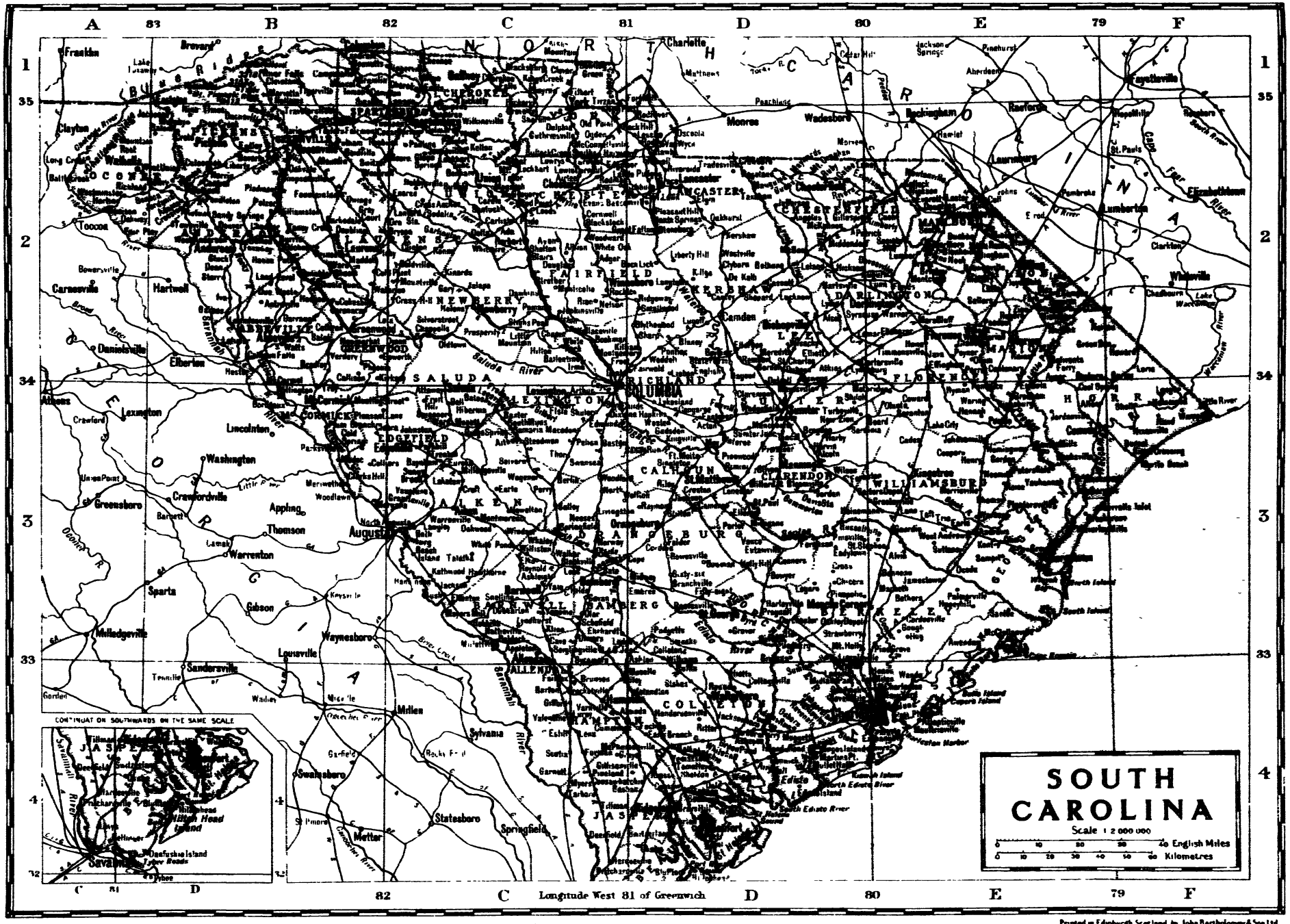
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WEST VIRGINIA
Scale 1 2,250,000
0 10 20 30 40 50 60 English Miles
0 10 20 30 40 50 60 70 80 Kilometres
C Longitude West 80 of Greenwich
PITTSBURGH
COLUMBUS
CHARLESTON
POCAHONTAS
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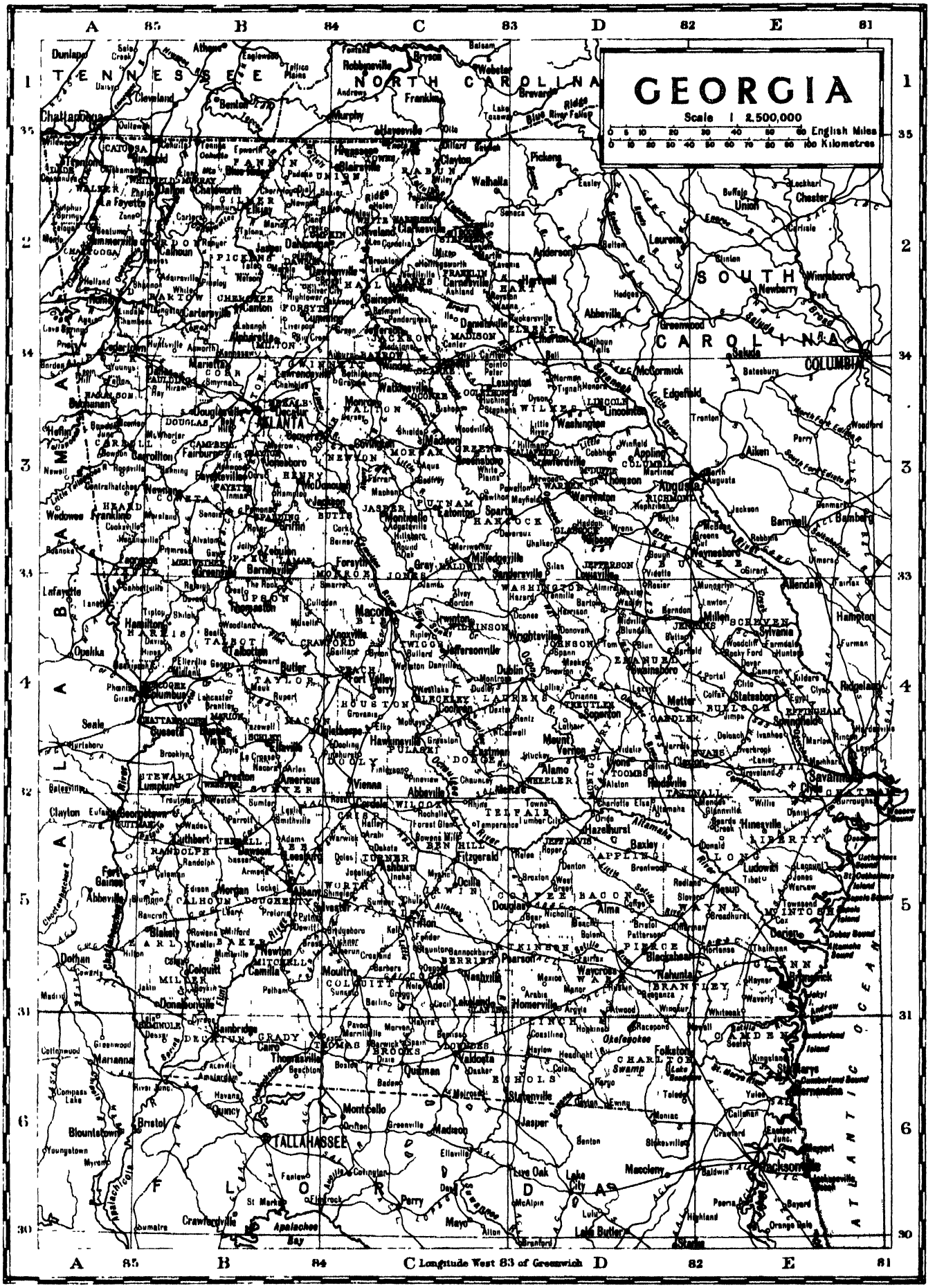


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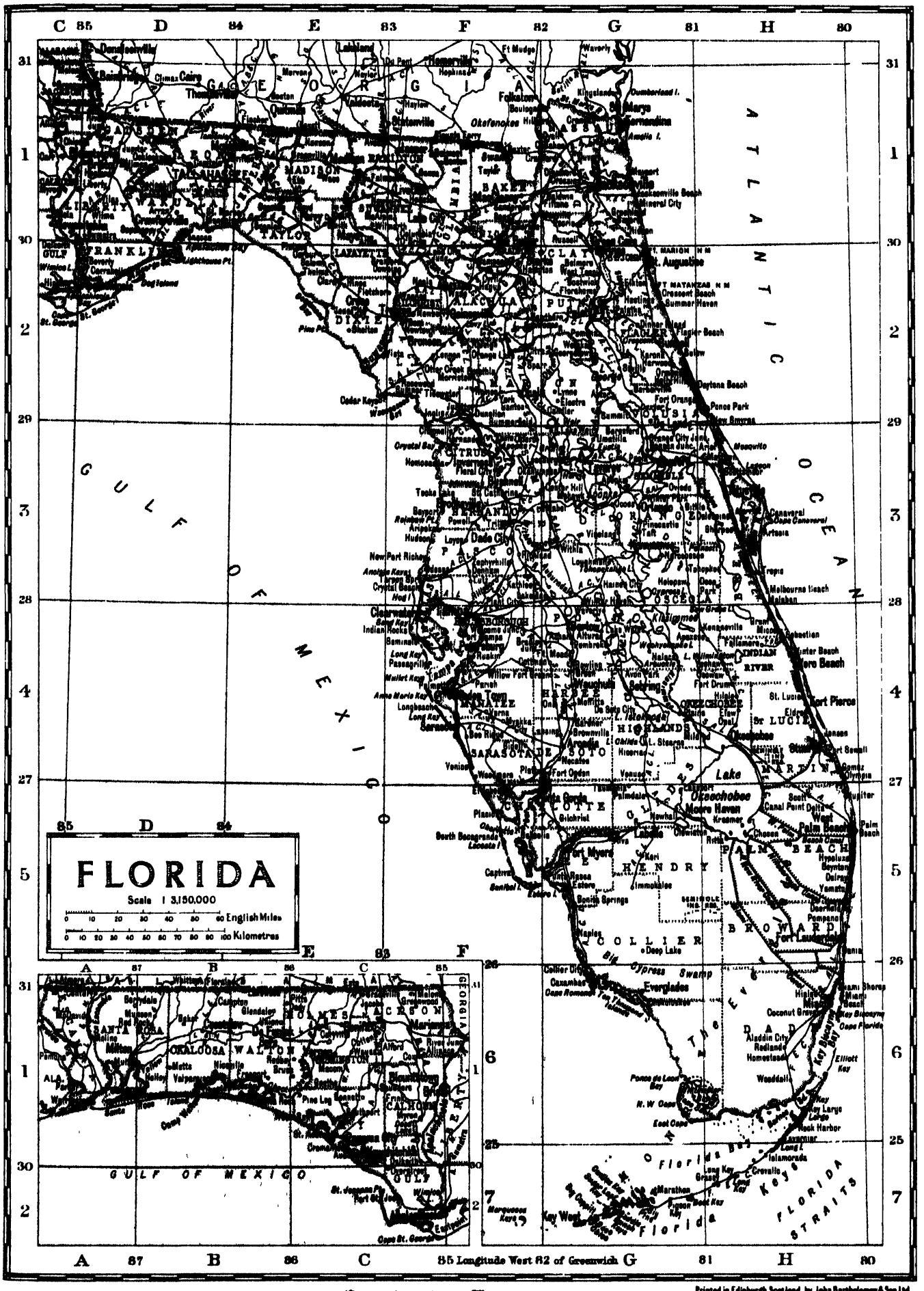
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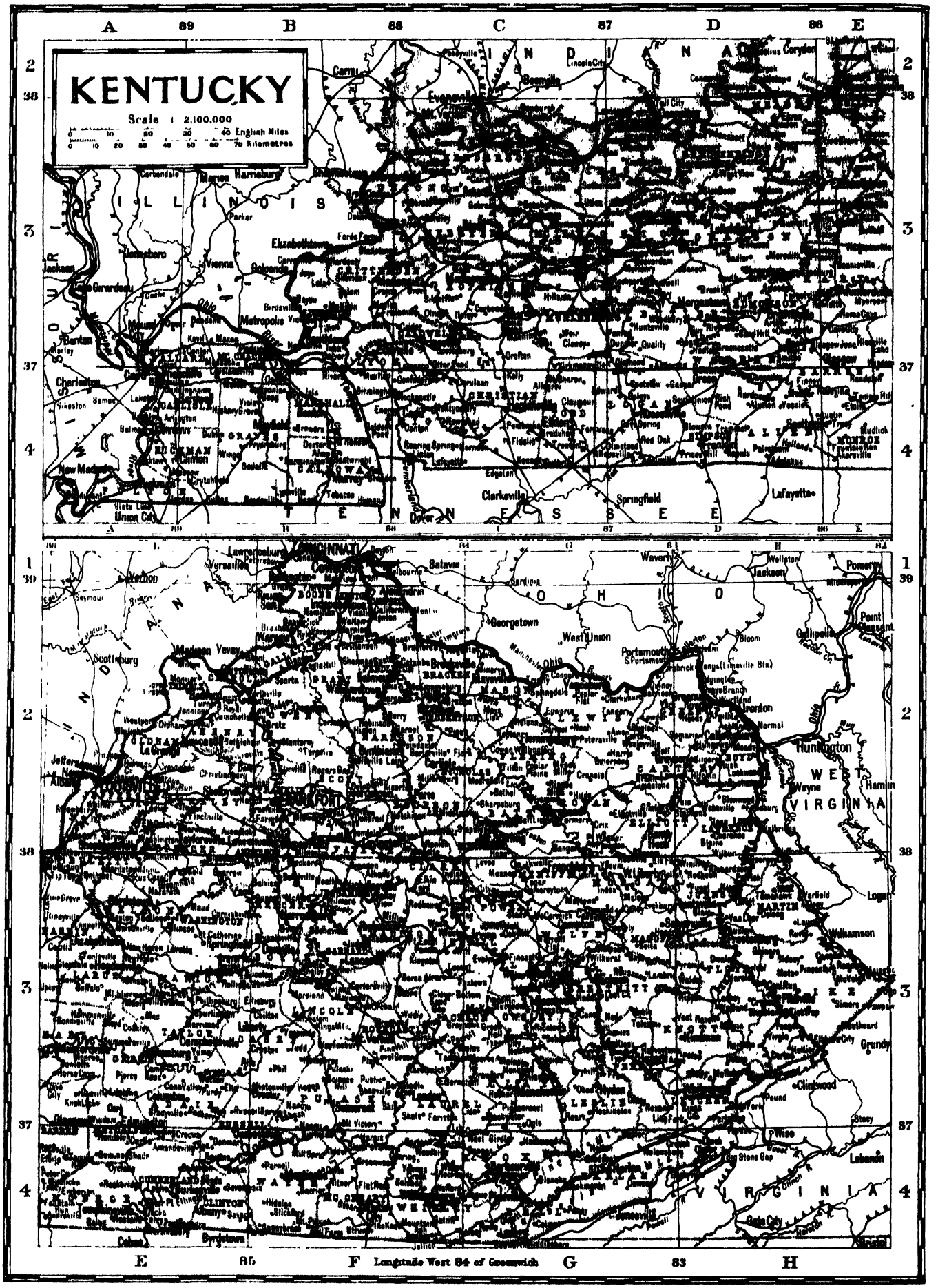
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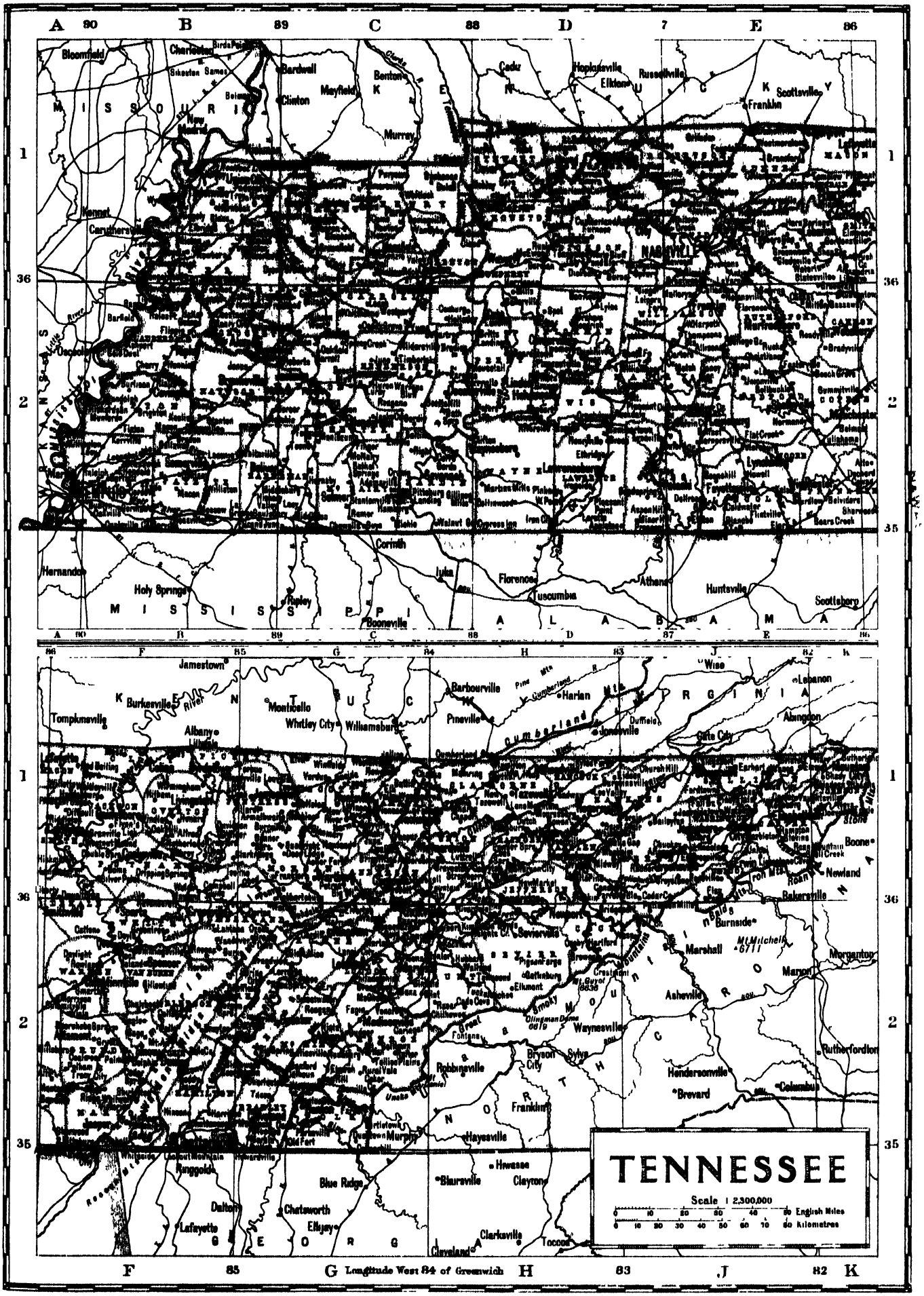
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FLORIDA
Scale 1 3,150,000
0 10 20 30 40 50 60 English Miles
0 10 20 30 40 50 60 70 80 90 100 Kilometres
GULF OF MEXICO
ATLANTIC OCEAN
Lake Okeechobee
Everglades
Big Cypress Swamp
Florida Bay
FLORIDA STRAITS
Key West
Marathon
Miami
Fort Lauderdale
West Palm Beach
Fort Myers
Naples
Tampa
St. Petersburg
Clearwater
Sarasota
Bradenton
Orlando
Daytona Beach
Jacksonville
Tallahassee
Pensacola
Fort Pierce
Melbourne
Titusville
St. Augustine
Gainesville
Ocala
Lakeland
Cape Canaveral
Cape Florida
Cape Sable
Cape St. George
Cedar Keys
Apalachicola
Panama City
Destin
Fort Walton Beach
Crestview
Marianna
Chipley
Perry
Live Oak
Lake City
Starke
Palatka
Deland
Kissimmee
Sebring
Arcadia
Punta Gorda
Venice
Bradenton
Lakeland
Winter Haven
Bartow
Lake Wales
Avon Park
Okeechobee
Stuart
Vero Beach
Sebastian
Cocoa
Melbourne
Titusville
Daytona Beach
Ormond Beach
Flagler Beach
St. Augustine
Palm Beach
Boca Raton
Deerfield Beach
Pompano Beach
Hollywood
Miami Beach
Coral Gables
Homestead
Florida City
Key Largo
Islamorada
Marathon
Key West
Tavernier
Plantation Key
Long Key
Grassy Key
Duck Key
Conch Key
Big Pine Key
Sugarloaf Key
Boca Chica Key
Stock Island
Elliott Key
Old Town
Chiefland
Trenton
Madison
Quincy
Monticello
Jasper
Lake City
Live Oak
Branford
Mayo
Perry
Steinhatchee
Cross City
Tallahassee
Thomasville
Quitman
Valdosta
Moultrie
Tifton
Albany
Bainbridge
Cairo
Donalsonville
Dothan
Marianna
Blountstown
Bristol
Apalachicola
Carrabelle
Panacea
St. Marks
Wakulla
Crawfordville
Monticello
Madison
Greenville
Lee
Valdosta
Quitman
Thomasville
Tallahassee
Quincy
Havana
Chattahoochee
Greensboro
Gretna
Midway
Bristol
Blountstown
Wewahitchka
Port St. Joe
Apalachicola
Eastpoint
St. George Island
Carrabelle
Sopchoppy
Panacea
St. Marks
Wakulla
Crawfordville
Medart
Perry
Steinhatchee
Cross City
Old Town
Chiefland
Trenton
Bell
Fanning Springs
Cedar Keys
Inglis
Crystal River
Homosassa
Floral City
Inverness
Brooksville
Dade City
Zephyrhills
Wesley Chapel
New Port Richey
Tarpon Springs
Clearwater
Dunedin
Largo
St. Petersburg
Gulfport
Pass-a-Grille
Anna Maria Key
Longboat Key
Sarasota
Venice
Nokomis
Osprey
Englewood
Boca Grande
Gasparilla Island
Punta Gorda
Port Charlotte
Cape Coral
Fort Myers Beach
Sanibel Island
Captiva Island
Bonita Springs
Naples
Marco Island
Everglades City
Chokoloskee
Flamingo
Cape Sable
Key West
Marathon
Islamorada
Key Largo
Tavernier
Plantation Key
Long Key
Grassy Key
Duck Key
Conch Key
Big Pine Key
Sugarloaf Key
Boca Chica Key
Stock Island
Elliott Key
Cape Florida
Miami Beach
Coral Gables
Homestead
Florida City
Key Biscayne
Virginia Key
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Miami
Hialeah
Miami Springs
Opa-locka
North Miami
North Miami Beach
Aventura
Hallandale
Hollywood
Dania
Deerfield Beach
Pompano Beach
Lighthouse Point
Boca Raton
Delray Beach
Boynton Beach
Lake Worth
Palm Beach
Jupiter
Tequesta
Hobe Sound
Stuart
Sewall's Point
Fort Pierce
St. Lucie
Port St. Lucie
Vero Beach
Sebastian
Indian River
Orchid
Wabasso
Roseland
Micco
Grant
Malabar
Palm Bay
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Satellite Beach
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Rockledge
Titusville
Mims
Scottsmoor
Oak Hill
Edgewater
New Smyrna Beach
Ponce Inlet
Daytona Beach
Ormond Beach
Holly Hill
South Daytona
Port Orange
Flagler Beach
Palm Coast
Bunnell
Ormond Beach
Deland
Orange City
Debary
Sanford
Lake Mary
Longwood
Altamonte Springs
Casselberry
Winter Park
Maitland
Eatonville
Apopka
Winter Garden
Ocoee
Windermere
Dr. Phillips
Orlando
Kissimmee
St. Cloud
Poinciana
Lake Wales
Haines City
Davenport
Celebration
Reedy Creek
Lake Buena Vista
Bay Lake
Walt Disney World
Kissimmee
St. Cloud
Narcoossee
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Immokalee
Ochopee



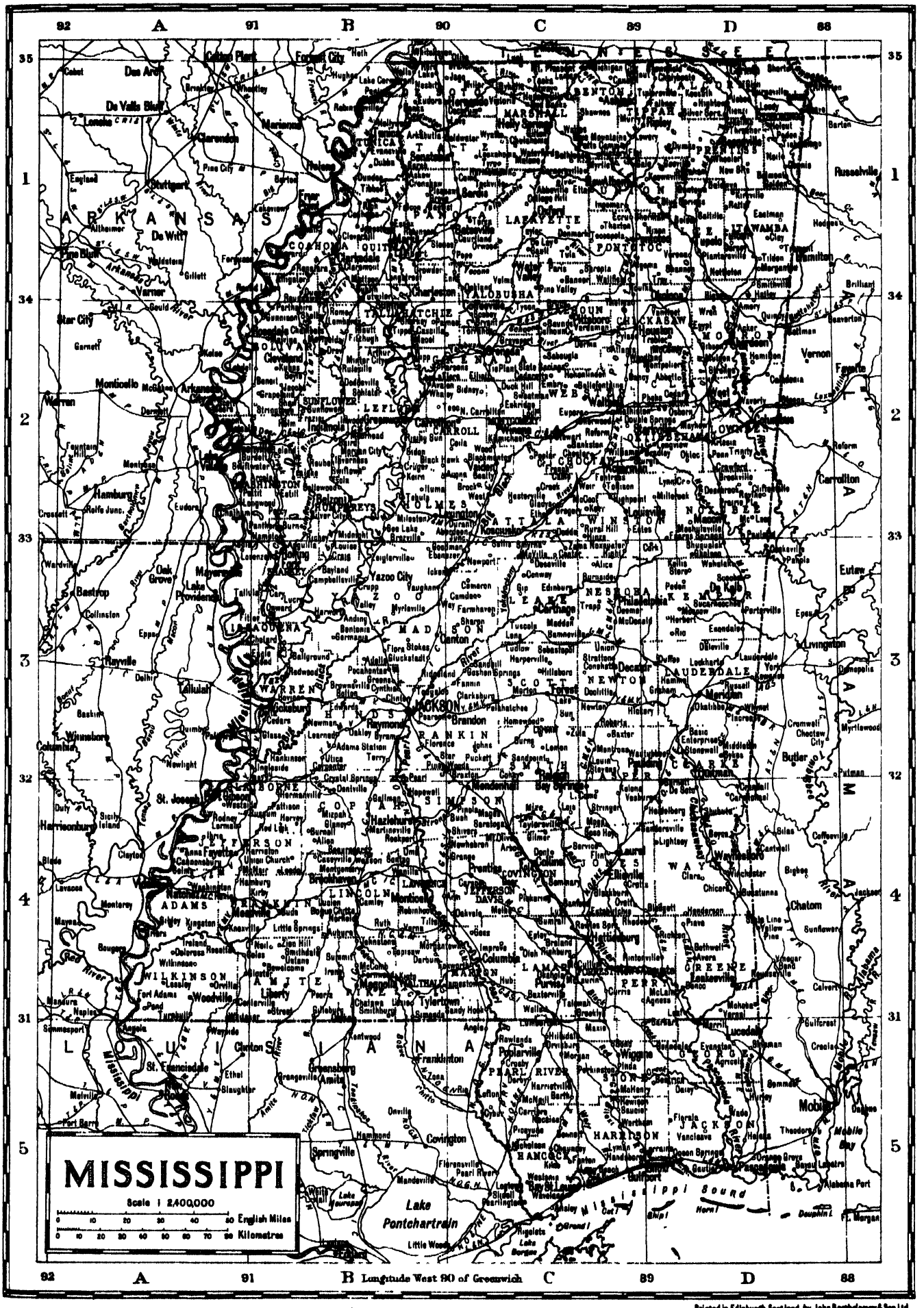
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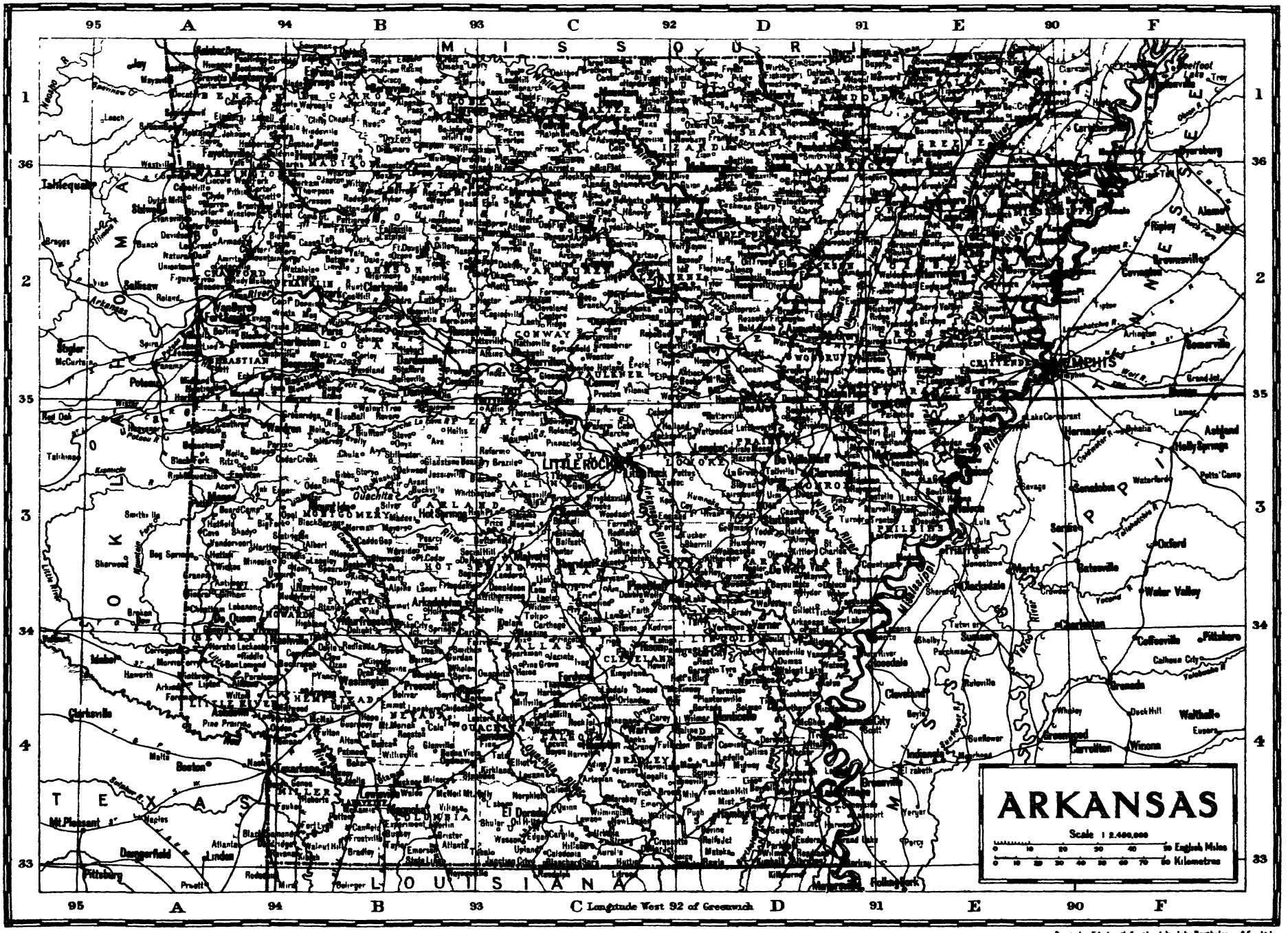
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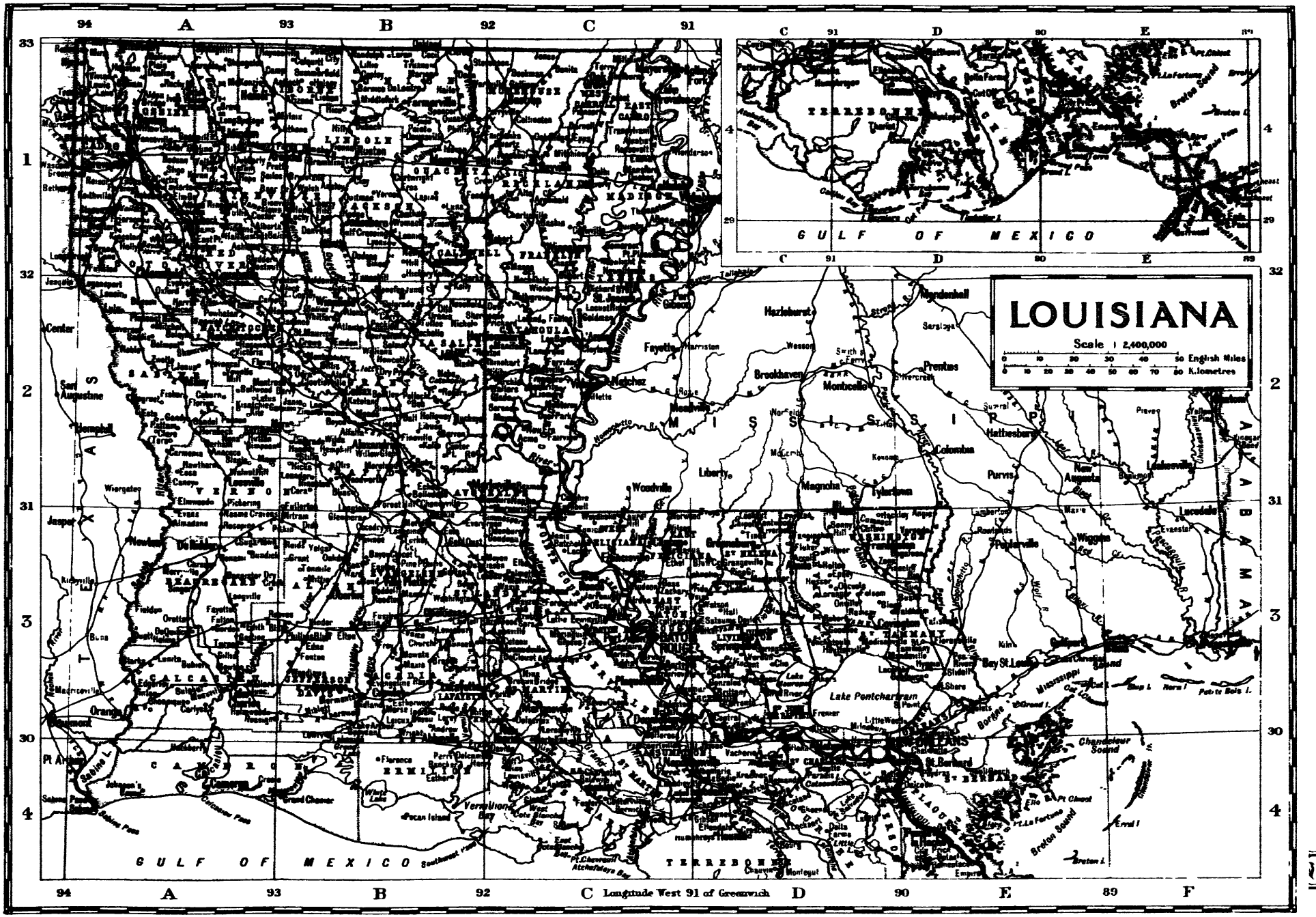


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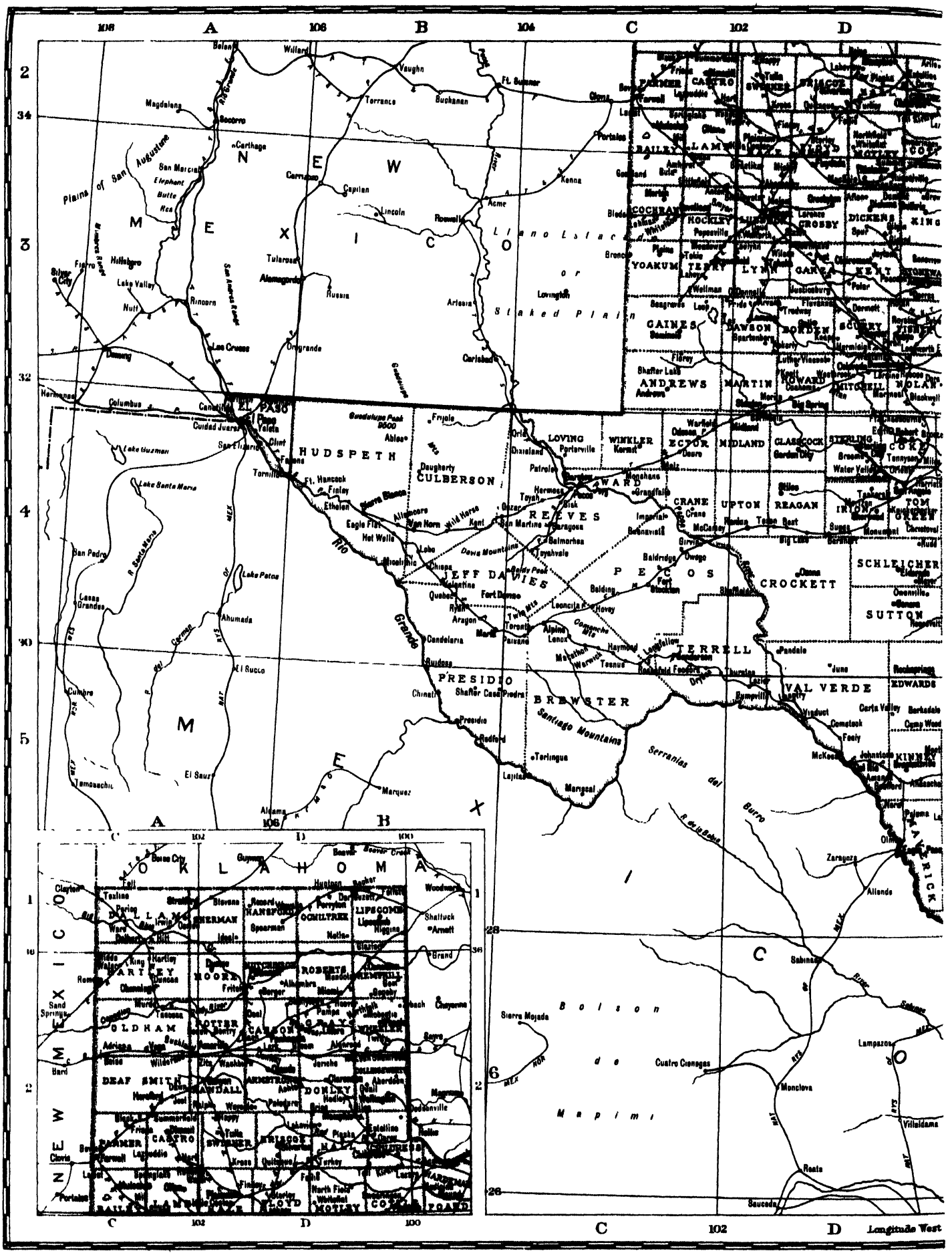


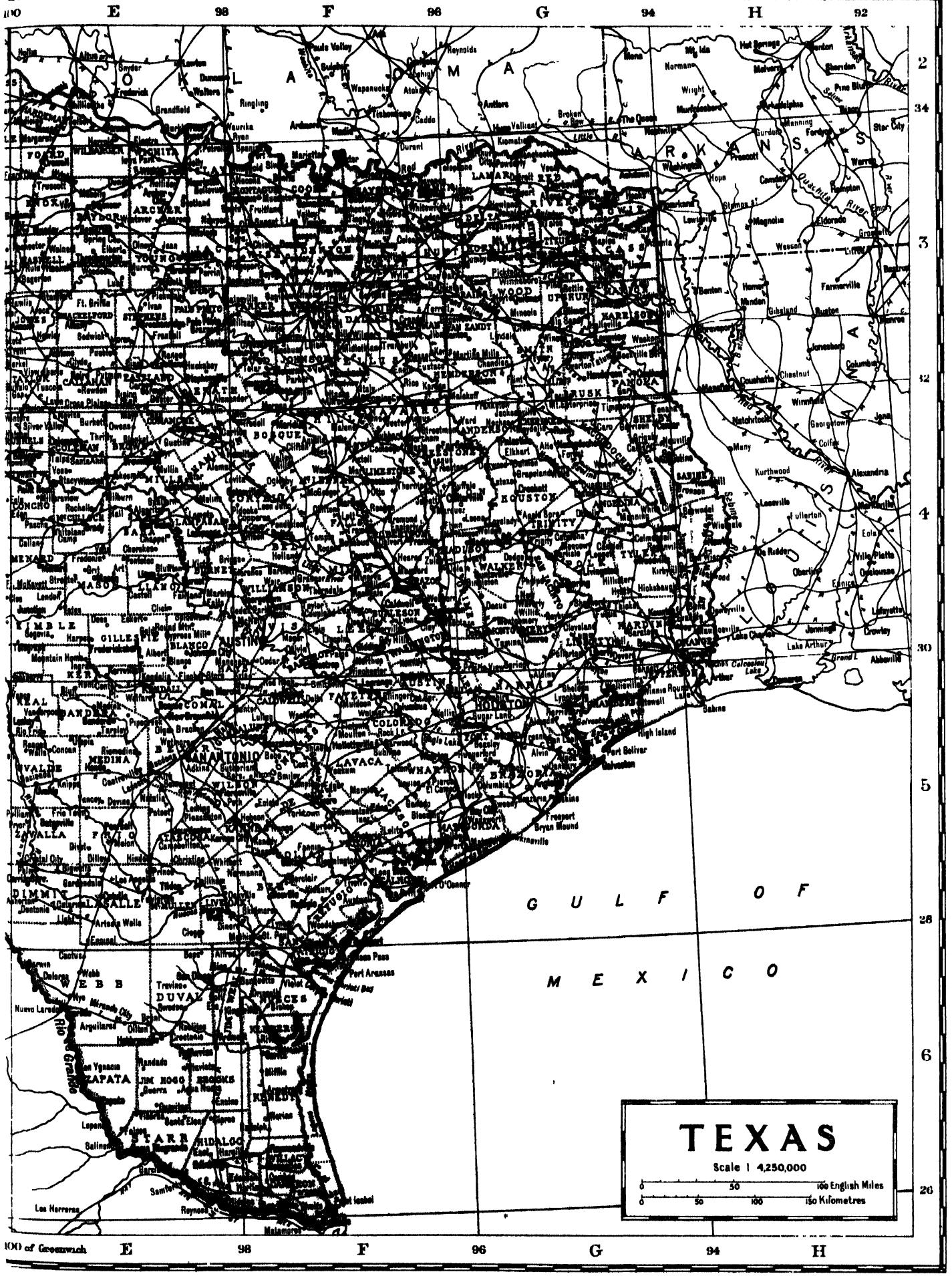
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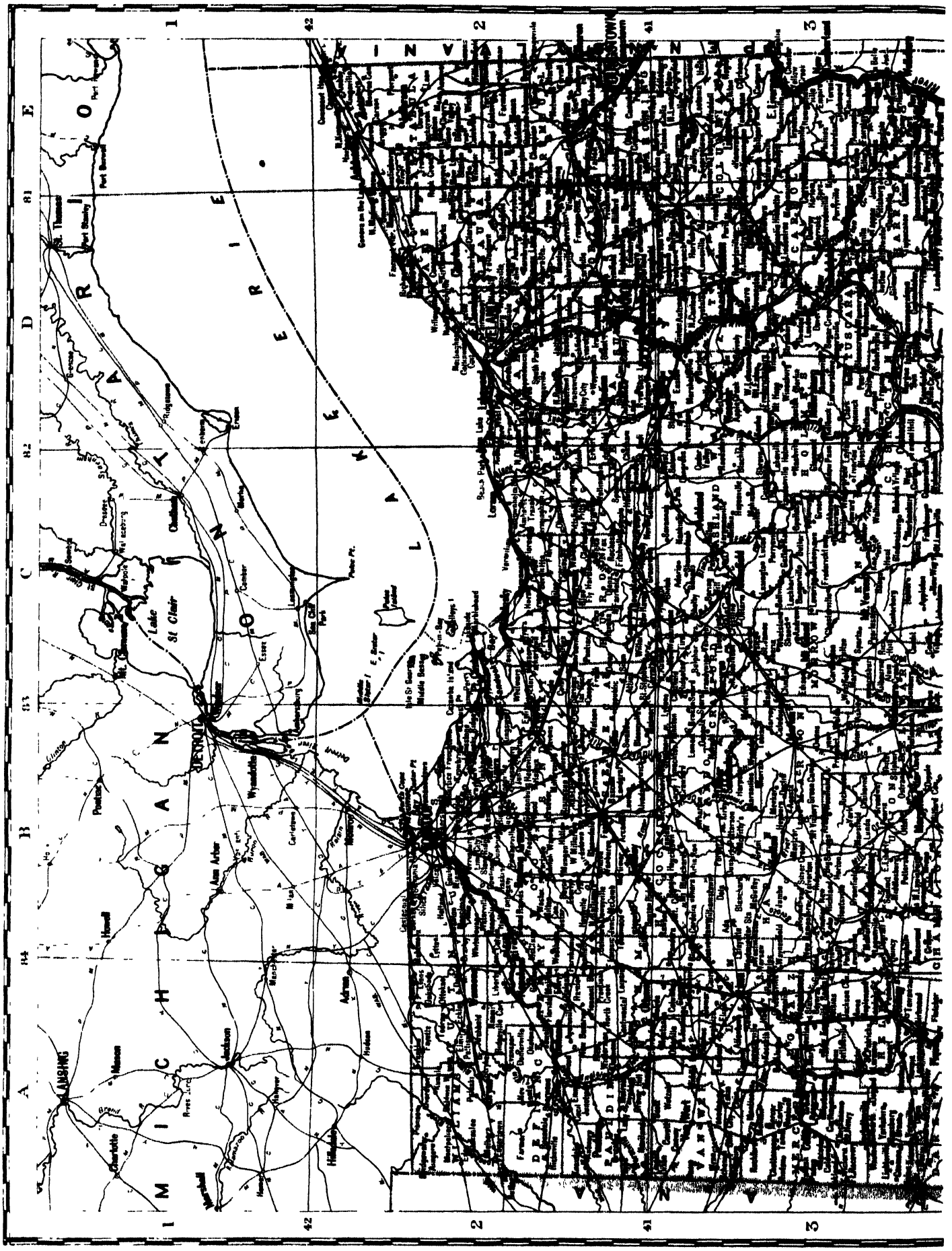


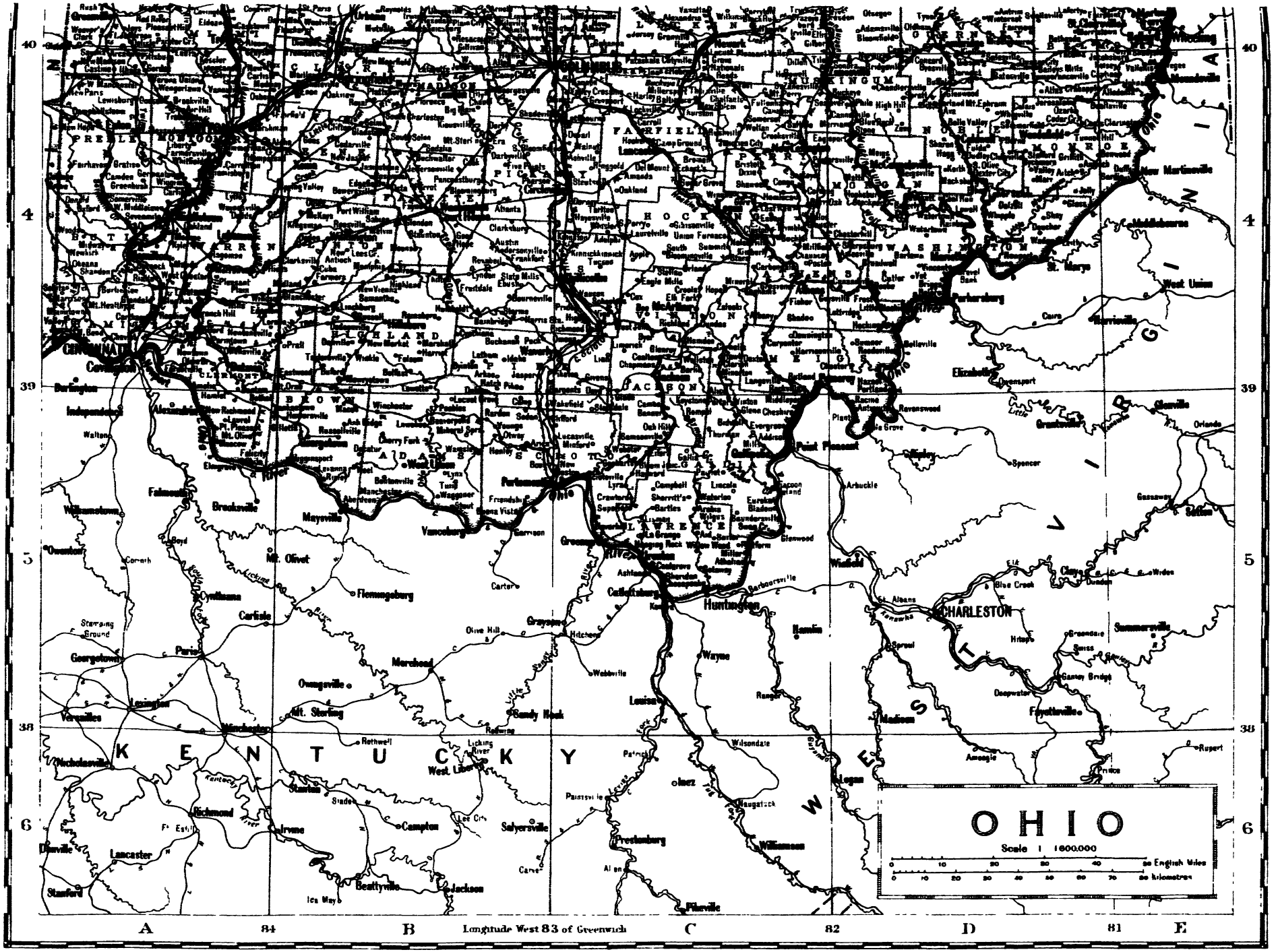
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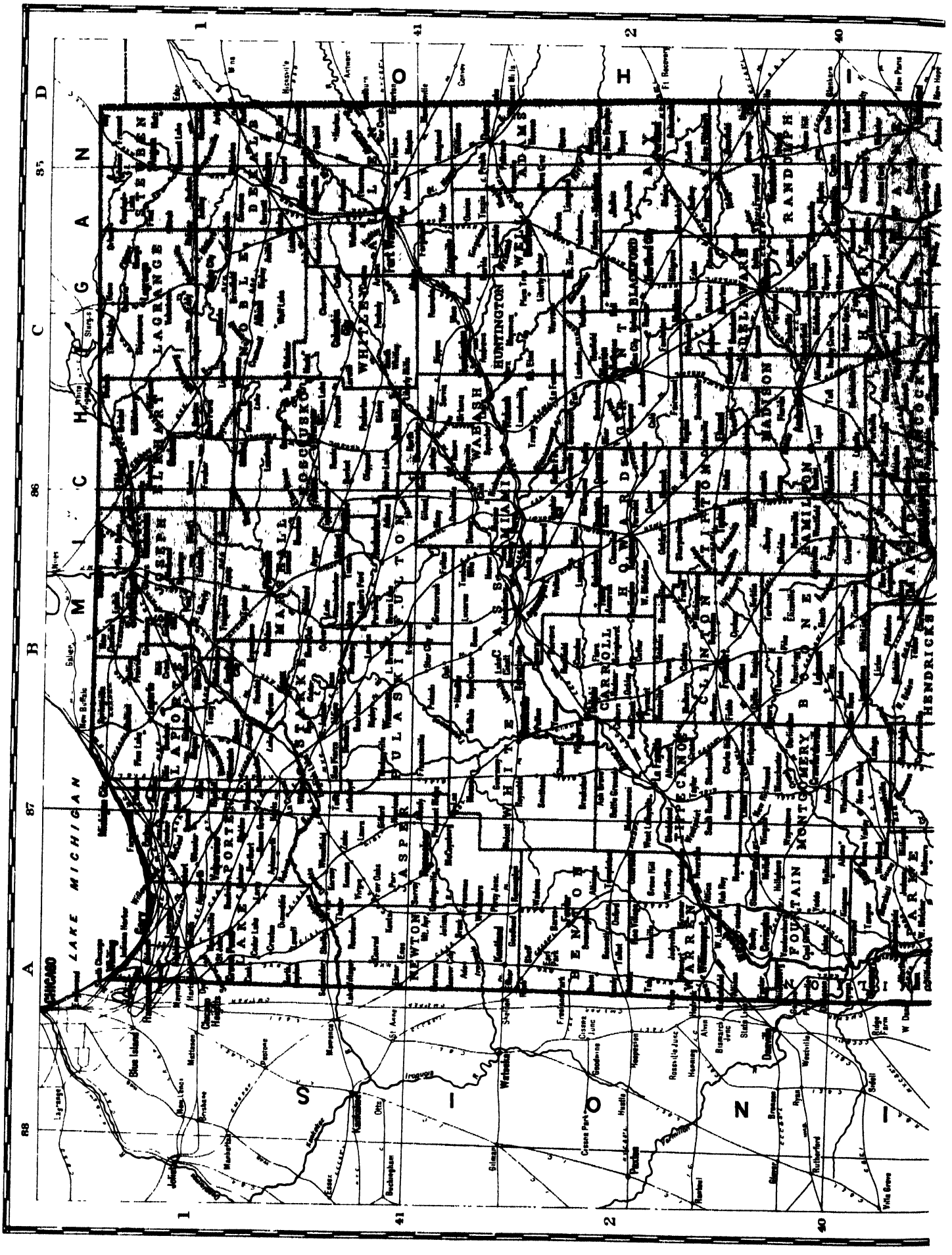

106 A 106 B 104 C 102 D
NEW MEXICO
OKLAHOMA
Llano Estacado or Staked Plain
Plains of San Augustine
Bolson de Mapimi
Sierra Mojada
Santiago Mountains
Serranias del Burro
Rio Grande
Longitude West

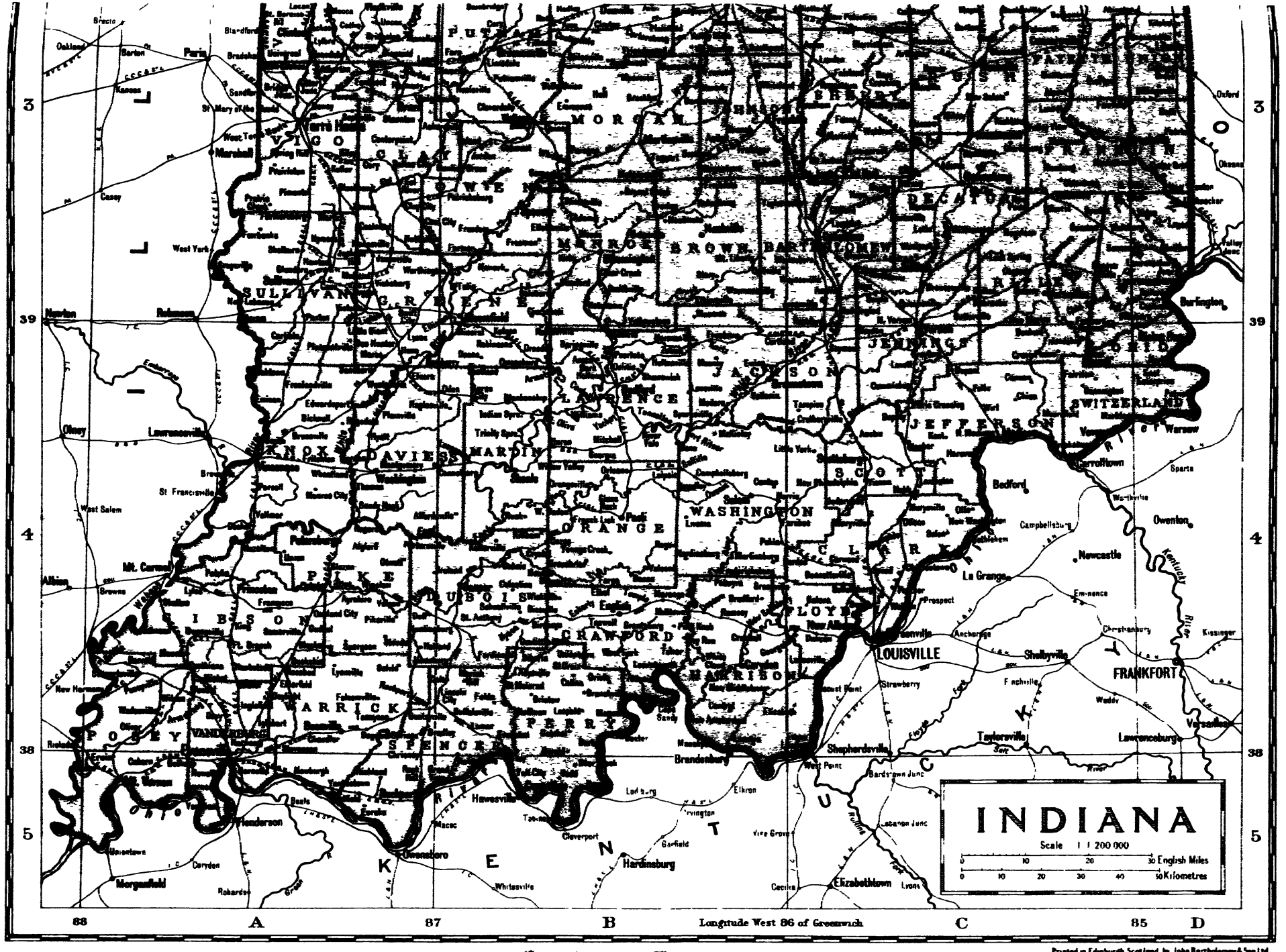


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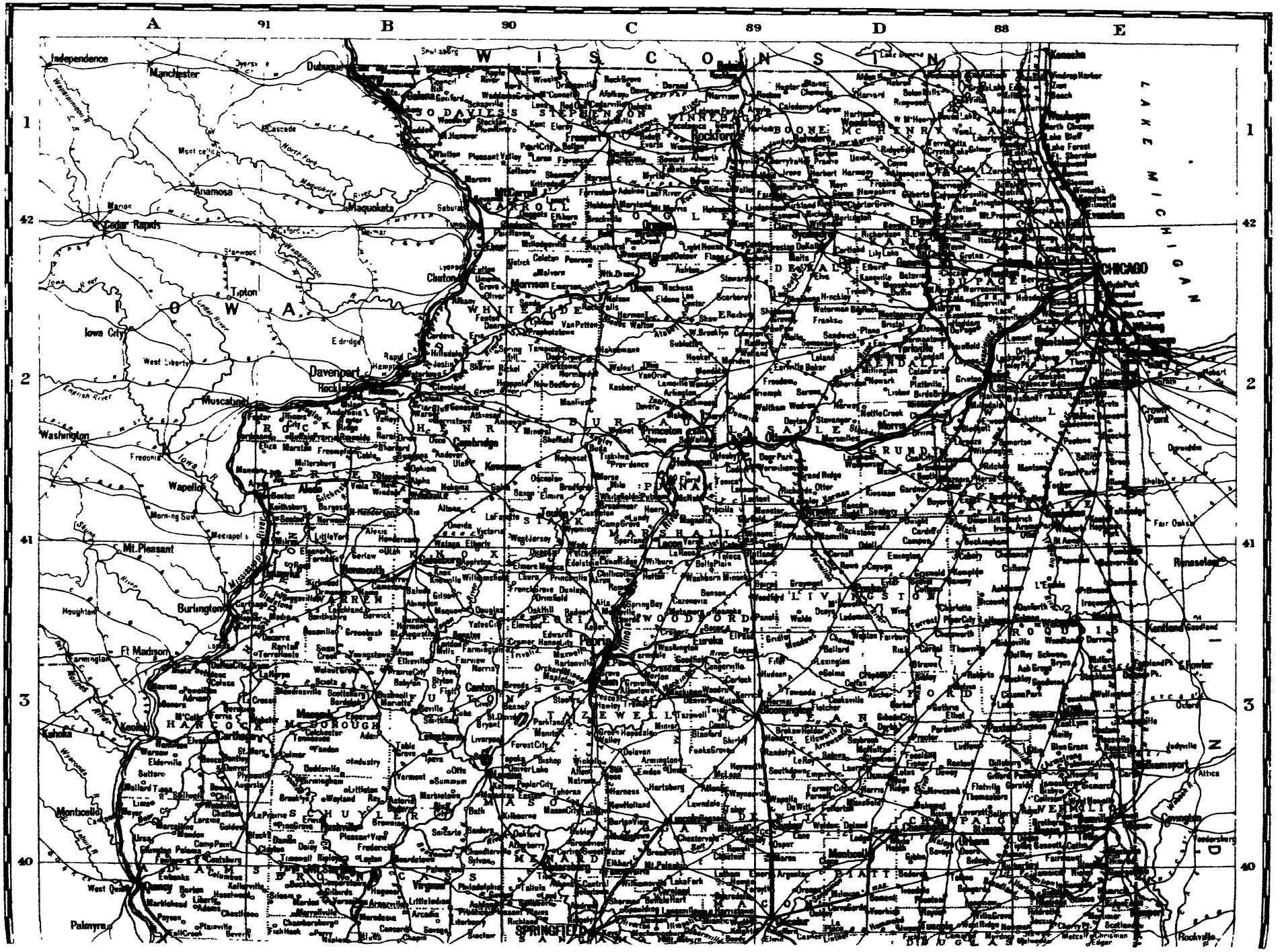

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LAKE ST CLAIR
DETROIT
LANSING
WINDSOR
CANADA
U.S.A.

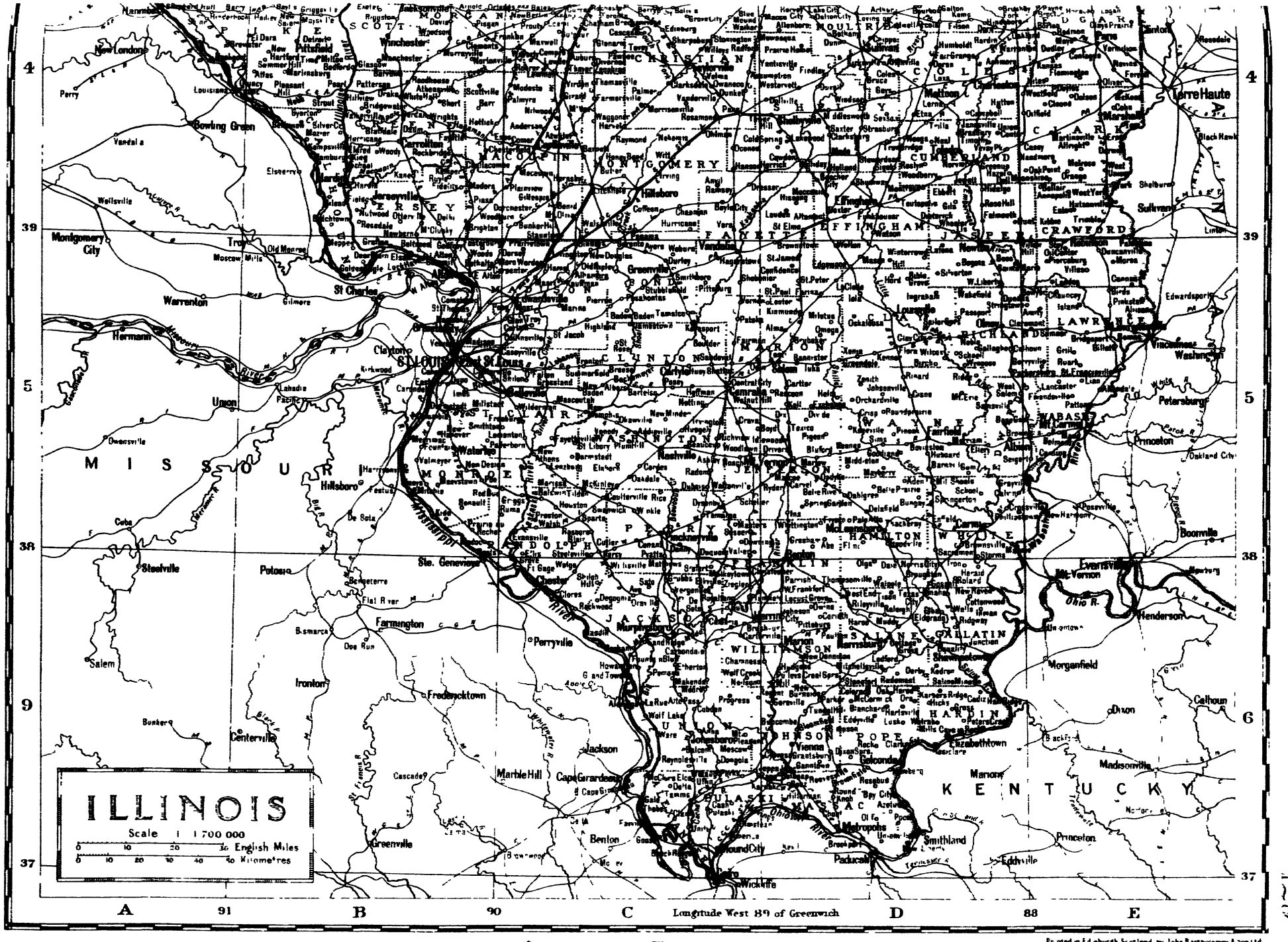

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Moundsville
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Ripley
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Sistersville
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Brooksville
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Flemingsburg
Carlisle
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Georgetown
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Versailles
Owingsville
Mt. Sterling
Morehead
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Summersville
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Spencer
Ravenswood
Belleville
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Jackson
Salyersville
Prestonsburg
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Williamson
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Madison
Danville
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LAKE MICHIGAN
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BENTON
WHITE
CARROLL
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MIAMI
WABASH
HUNTINGTON
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GRANT
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RANDOLPH
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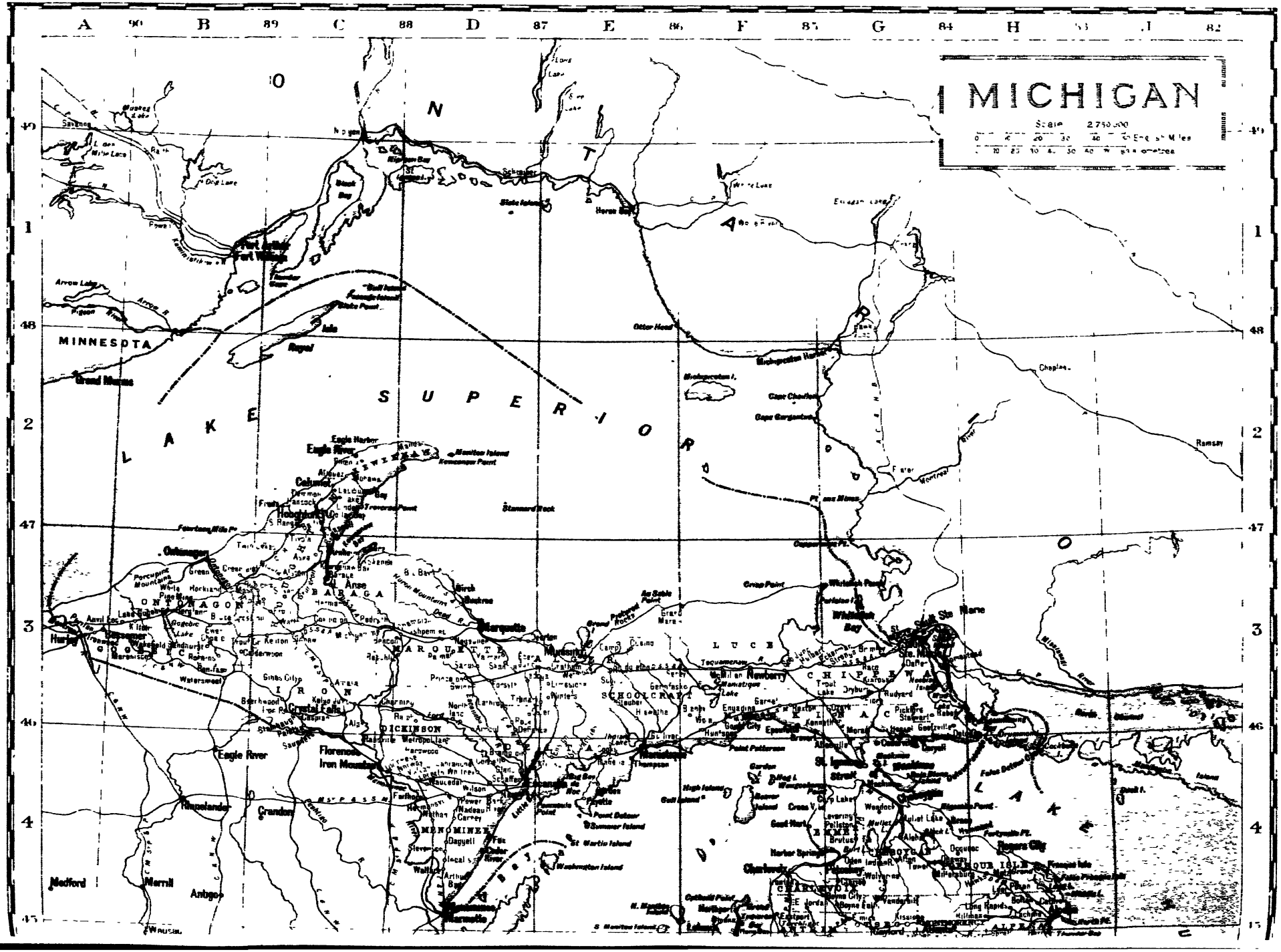
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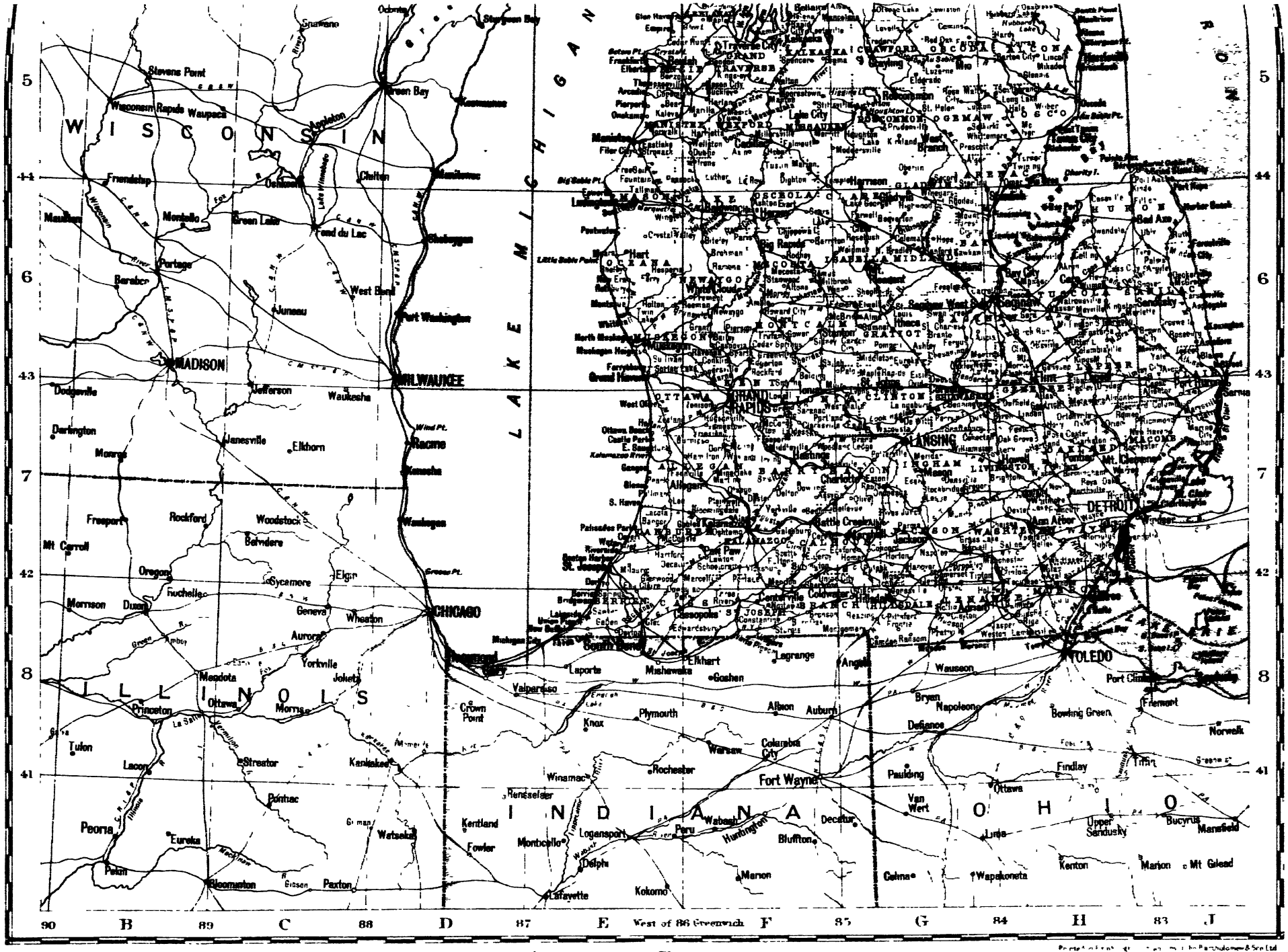

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Independence
Manchester
Dubuque
Anamosa
Maquoketa
Cedar Rapids
Clinton
Tipton
Iowa City
Davenport
Muscatine
Washington
Wapello
Mt. Pleasant
Burlington
Ft Madison
Keokuk
Montezuma
Palmyra
Rockford
Kenosha
Waukegan
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Aurora
Elgin
Peoria
Bloomington
Springfield
Decatur
Champaign
Danville
Rensselaer
Kankakee
Watseka
Pontiac
Ottawa
Streator
La Salle
Princeton
Kewanee
Galesburg
Monmouth
Macomb
Canton
Lacon
Henry
Toulon
Havana
Lincoln
Mattoon
Effingham
Paris
Terre Haute
Crawfordsville
Lafayette
Logansport
Peru
Kokomo
Marion
Huntington
Wabash
Attica
Covington
Rockville
Danville
Hoopeston
Gibson City
Monticello
Clinton
Farmer City
Tuscola
Arcola
Shelbyville
Taylorville
Pana
Vandalia
Greenville
Carlinville
Alton
Edwardsville
Belleville
Centralia
Salem
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Robinson
Marshall
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Douglas
Edgar
Vermilion
Iroquois
Ford
Livingston
Woodford
Tazewell
Mason
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Logan
Sangamon
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St. Clair
Clinton
Washington
Jefferson
Wayne
Edwards
Wabash
Richland
Lawrence
Crawford
Clay
Effingham
Fayette
Montgomery
Christian
Shelby
Moultrie
Piatt
Champaign
Ford
Iroquois
Kankakee
Will
Grundy
La Salle
Bureau
Putnam
Marshall
Stark
Knox
Henderson
Warren
Hancock
McDonough
Fulton
Schuyler
Brown
Adams
Pike
Calhoun
Jersey
Greene
Scott
Morgan
Cass
Menard
Mason
Tazewell
Woodford
Livingston
Ford
Iroquois
Kankakee
Will
Cook
DuPage
Kane
Kendall
Grundy
La Salle
Lee
Ogle
Winnebago
Boone
McHenry
Lake
Rock Island
Henry
Stephenson
Jo Daviess
Carroll
Whiteside
Mississippi River
Rock River
Illinois River
Fox River
Des Plaines River
Kankakee River
Iowa River
Cedar River
Wapsipinicon River
Maquoketa River
North Fork
Skunk River
Wyaconda River
Fox River
Embarras River
Little Wabash River
Big Muddy River
Kaskaskia River
Sangamon River
Vermilion River
Wabash River
Illinois River
Mississippi River
Rock River
Fox River
Des Plaines River
Kankakee River
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Cedar River
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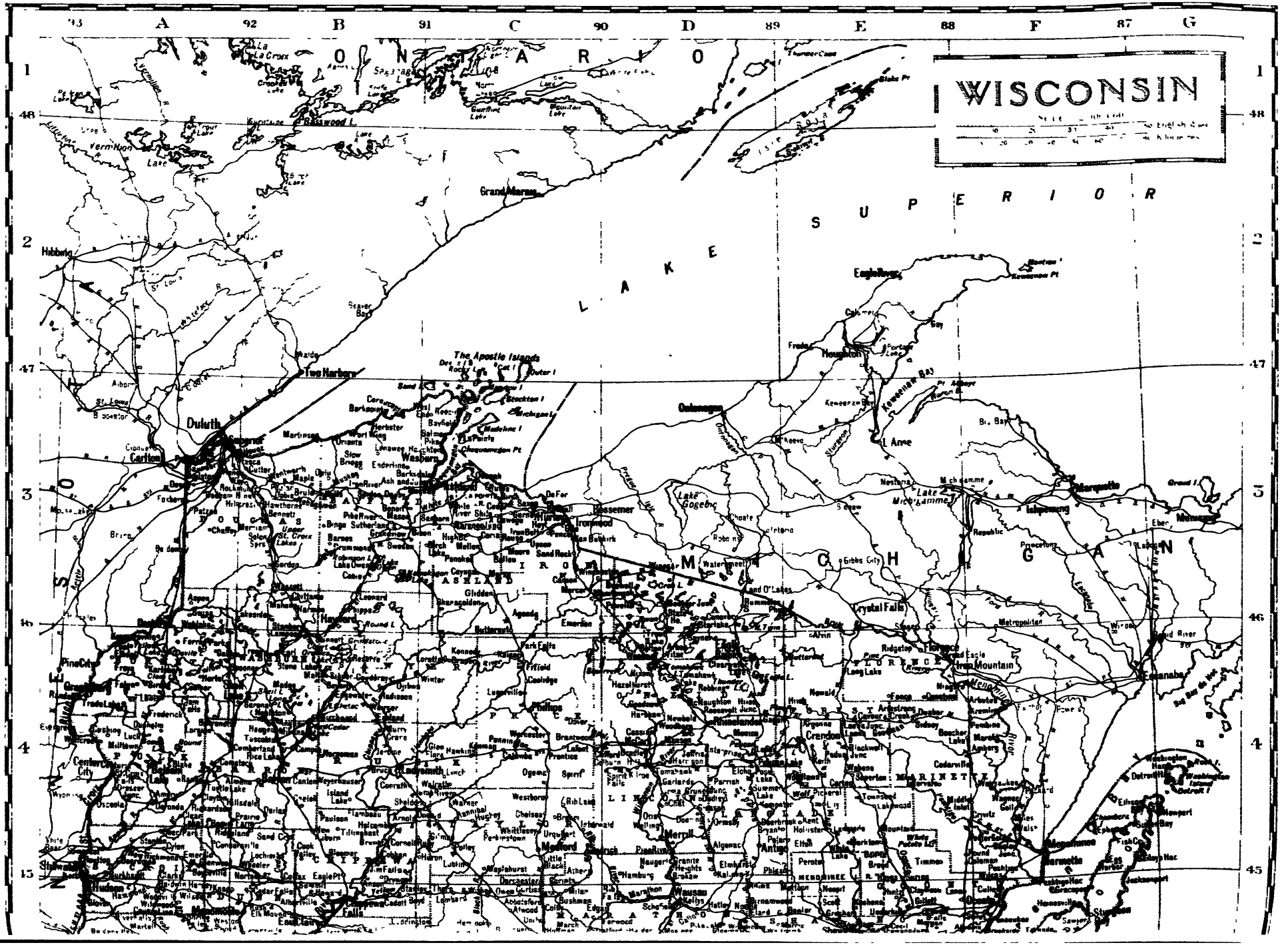


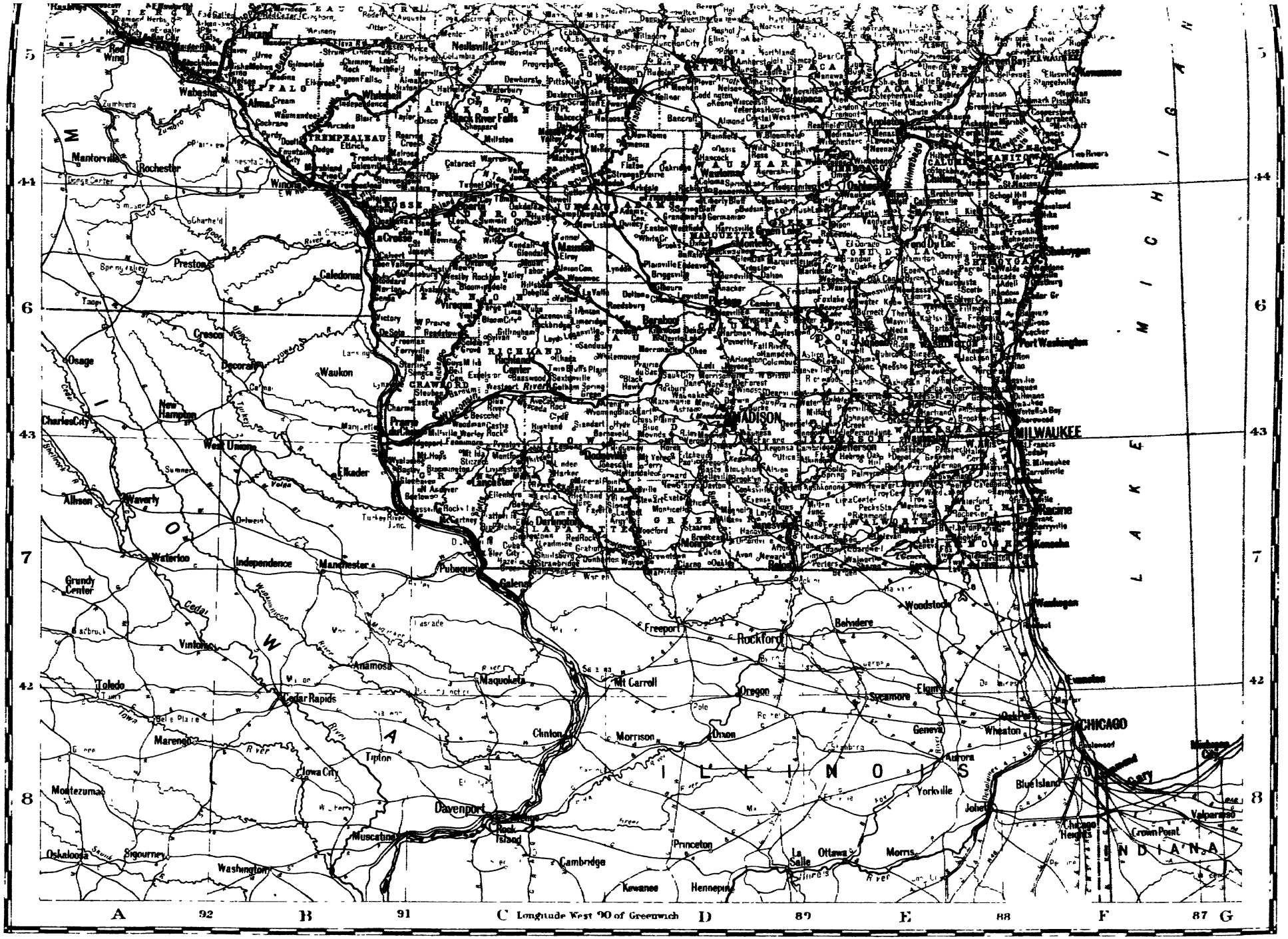
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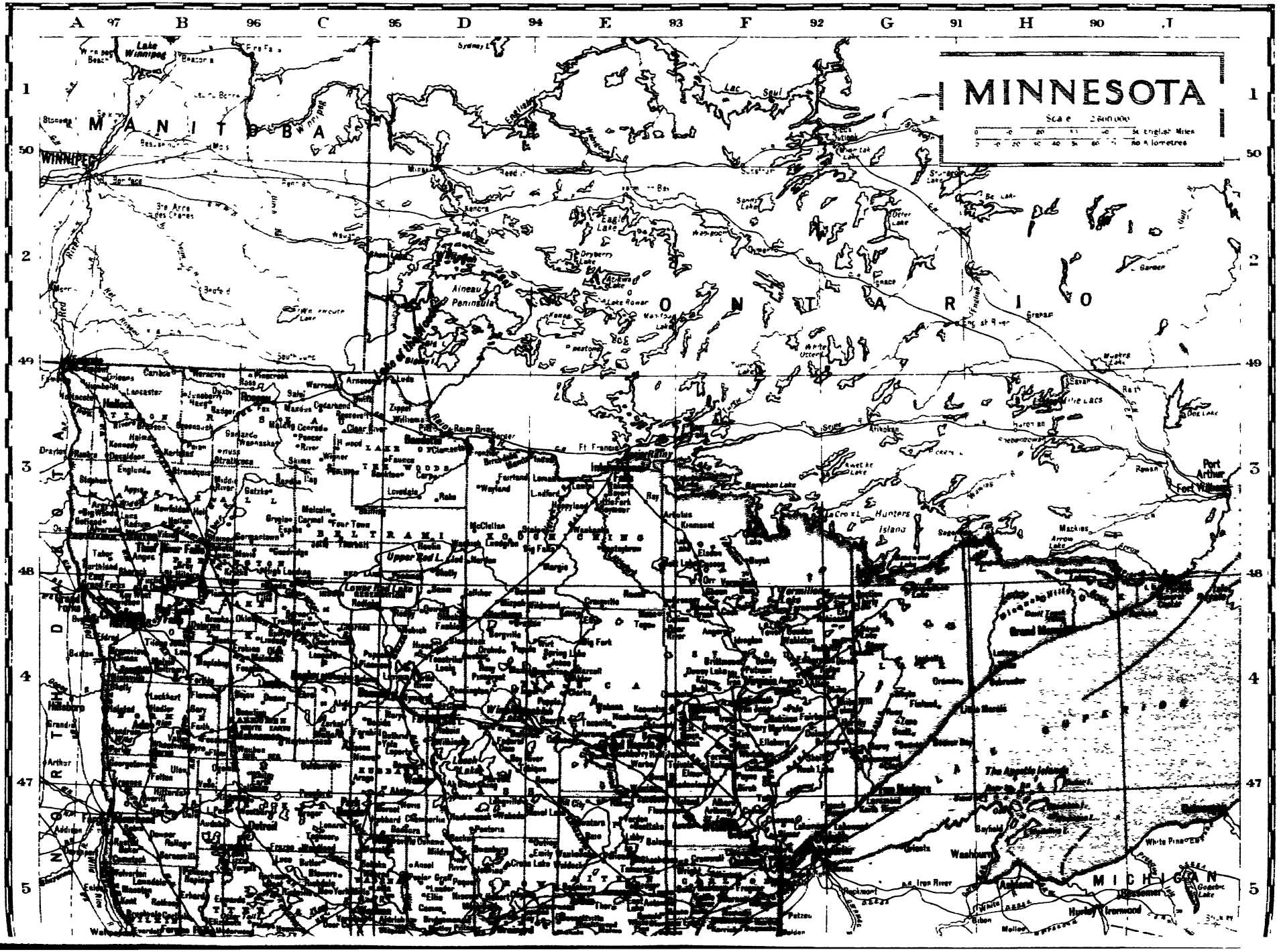

MICHIGAN
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MINNESOTA
WISCONSIN
ONTARIO
LAKE HURON
LAKE MICHIGAN
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Menominee
Iron Mountain
Crystal Falls
Eagle River
Rhinelander
Crandon
Medford
Merrill
Antigo
Sault Ste Marie
Manistique
Newberry
Munising
Houghton
Hancock
Calumet
Ontonagon
Hurley
Ironwood
Wakefield
Bessemer
Florence
Watersmeet
Grand Marais
Thunder Bay
Port Arthur
Fort William
Nipigon
Schreiber
Marathon
Terrace Bay
Michipicoten I.
Cape Gargantua
Cape Chelmsford
Otter Head
Batchawana Bay
Whitefish Bay
Point Iroquois
Gros Cap
Detour
Mackinac Island
Mackinaw City
St Ignace
Straits of Mackinac
Cheboygan
Petoskey
Harbor Springs
Charlevoix
Boyne City
Gaylord
Alpena
Rogers City
Presque Isle
Grand Traverse Bay
Saginaw Bay
Thunder Bay
Lake Nipigon
Lake Superior Provincial Park
Pukaskwa National Park
Lake Superior Provincial Park
Sleeping Giant Provincial Park
Quetico Provincial Park
Nipigon River
Pigeon River
Arrow Lake
Arrow R.
Pigeon R.
Royal
Isle Royale
Rock of Ages
Passage Island
Blake Point
Grand Marais
Eagle Harbor
Eagle River
Copper Harbor
Manitou Island
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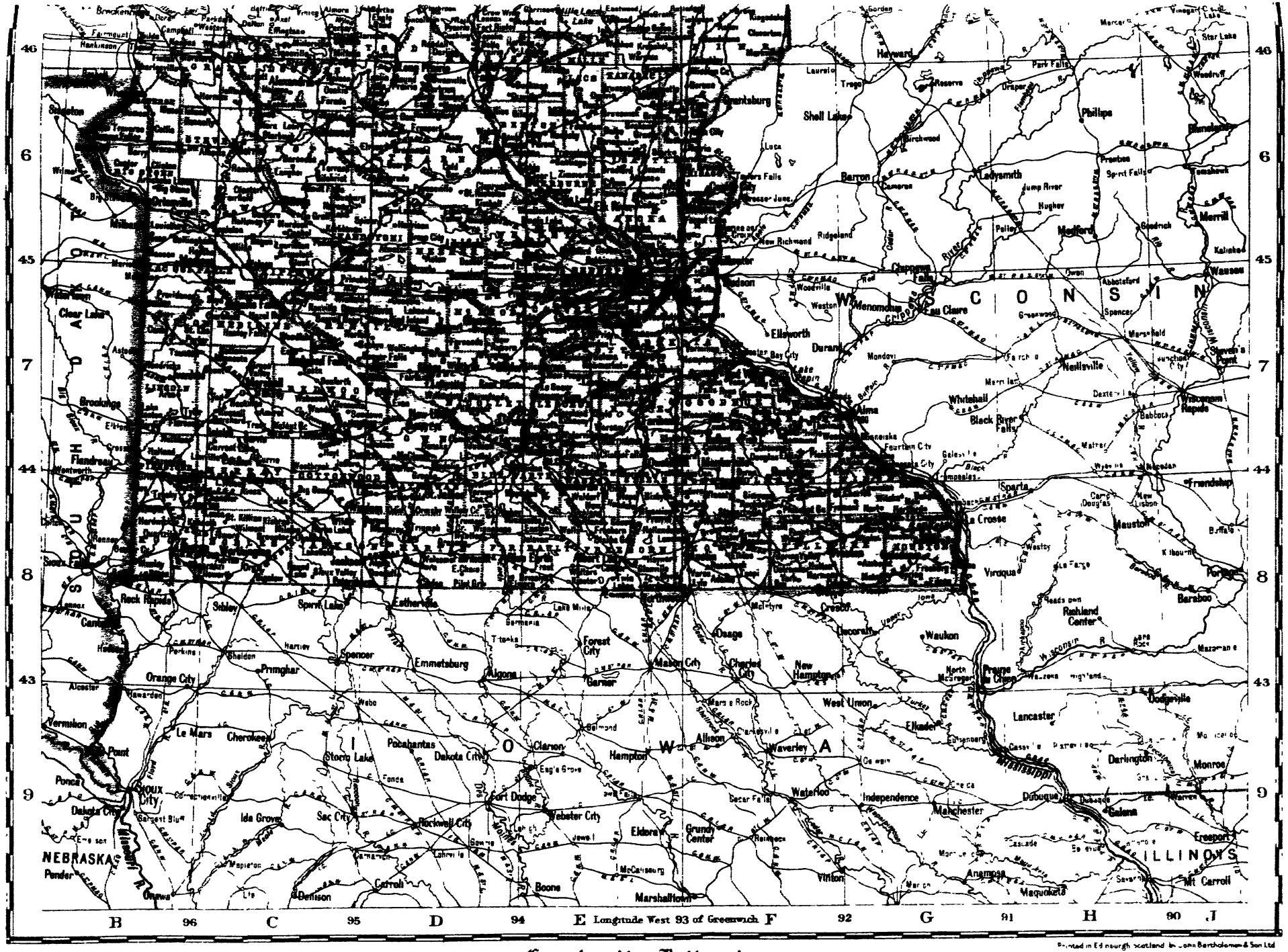

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Wapakoneta
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Delphi
Lafayette
Kokomo
Marion


WISCONSIN
ONTARIO
MICHIGAN
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Duluth
Superior
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Hibbing
Ashland
Hayward
Rhinelander
Wausau
Merrill
Antigo
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Iron Mountain
Escanaba
Marquette
Ironwood
Bessemer
Houghton
Eagle River
L'Anse
Crystal Falls
Florence
Marinette
Menominee
Oconto
Green Bay
Sturgeon Bay
The Apostle Islands
Grand Marais
Gogebic
Keweenaw Bay
Watersmeet
Land O'Lakes
Iron River
Park Falls
Phillips
Medford
Stevens Point
Wisconsin Rapids
Tomahawk
Rhinelander
Eagle River
Florence
Iron Mountain
Escanaba
Marquette
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Negaunee
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Gladstone
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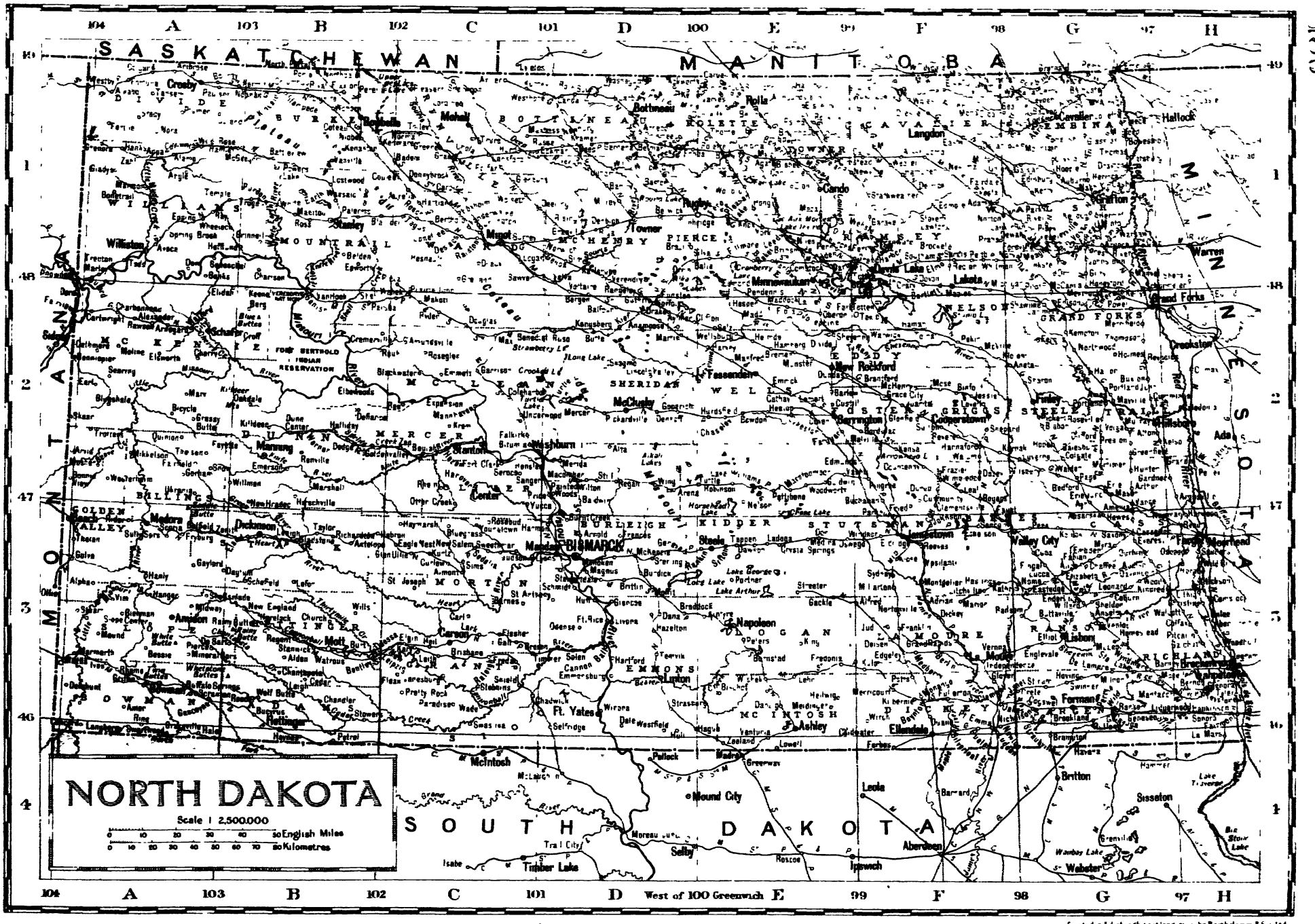
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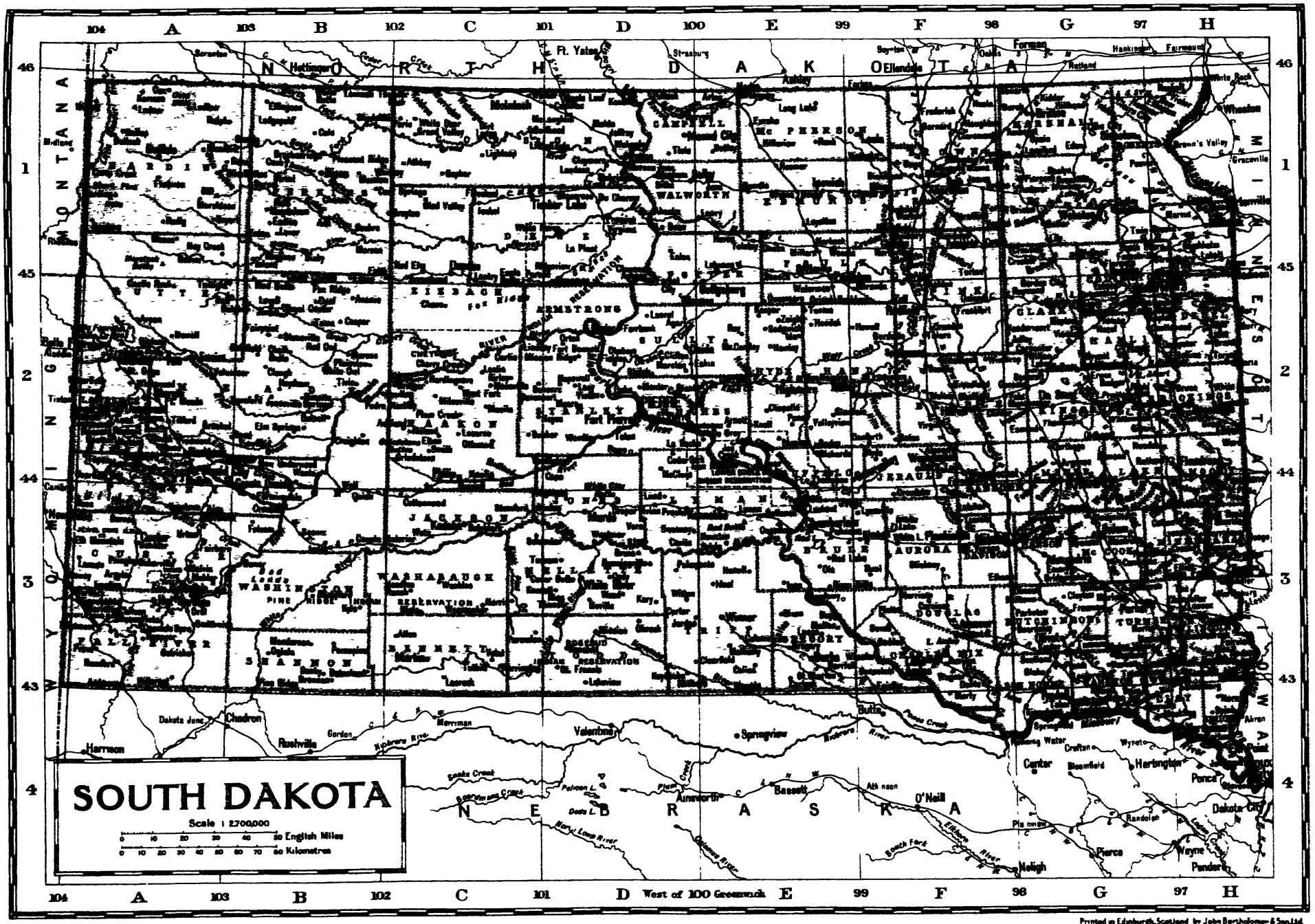

MINNESOTA
A 97 B 96 C 95 D 94 E 93 F 92 G 91 H 90 J
1 50 49 48 47 5
MANITOBA
ONTARIO
MICHIGAN
WINNIPEG
Lake Winnipeg
Lake Superior
Port Arthur
Fort William
Hunters Island
Aineau Peninsula
Upper Red L.
Lower Red Lake
Thunder Bay
Ft Frances
Rainy River
Rainy Lake
Lake of the Woods
Red River
Winnipeg River
Pigeon River
Grand Portage
Grand Marais
Ashland
Ironwood
Hurley
Bessemer
Washburn
Bayfield
Gogebic Lake
White Pine
Iron River
Crystal Falls
Watersmeet
Gibon
Mellen
Hibbing
Virginia
Eveleth
Chisholm
Nashwauk
Grand Rapids
Cohasset
Deer River
Bemidji
Blackduck
Kelliher
Red Lake Falls
Thief River Falls
Crookston
East Grand Forks
Grand Forks
Warren
Roseau
Greenbush
Pembina
Hallock
Kittson
Lancaster
Donaldson
Oslo
Arnaud
Emerson
Letellier
Morris
Carman
Portage
Winnipeg Beach
Stonewall
Selkirk
Lockport
Transcona
Dugald
Beausejour
Lac du Bonnet
Pine Falls
Sandy Lake
Eagle Lake
Dryberry Lake
Shoal Lake
Kenora
Sioux Lookout
Nipigon
Geraldton
Longlac
Armstrong
Beardmore
Jellicoe
Manitouwadge
Schreiber
Terrace Bay
Marathon
Pukaskwa
Wawa
Michipicoten
Sault Ste Marie
Lake Superior
Lake Nipigon
Lake Nipigon
Lac Seul
Sturgeon Lake
Big Trout Lake
Lake Wabigoon
Lake Manitou
Lake Rowan
Lake Agnes
Lake Shebandowan
Lake Nipigon
Lake Helen
Lake Gunflint
Lake Saganaga
Lake Kabetogama
Lake Vermilion
Lake Winnibigoshish
Leech Lake
Cass Lake
Pokegama Lake
Mille Lacs
Lake Mille Lacs
Lake Pepin
Lake Traverse
Big Stone Lake
Lake Bronson



Encyclopædia Britannica

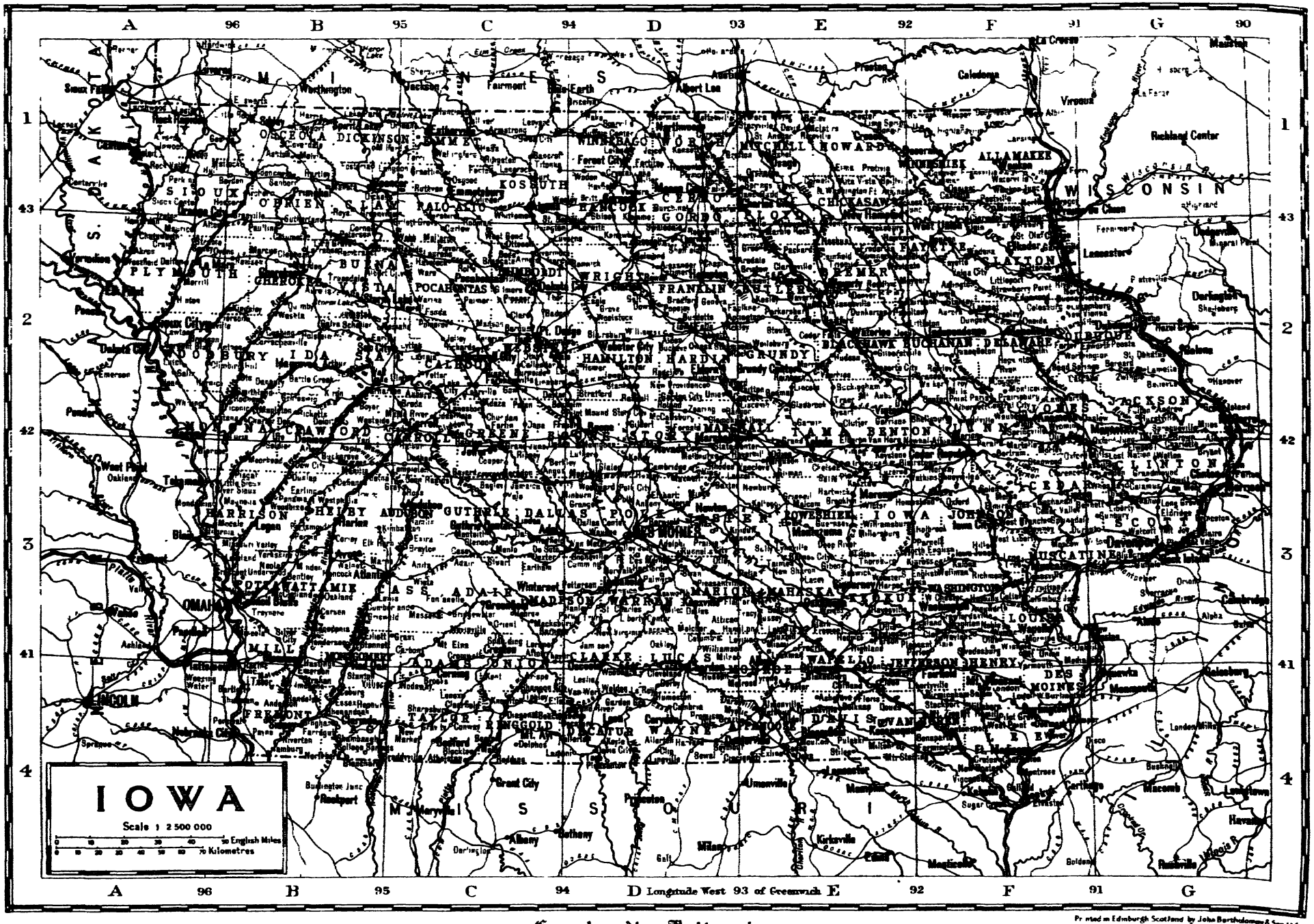
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NORTH DAKOTA
Scale 1 2,500,000
0 10 20 30 40 50 English Miles
0 10 20 30 40 50 60 70 80 Kilometres
SASKATCHEWAN
MANITOBA
SOUTH DAKOTA
MONTANA
MINNESOTA
104 A 103 B 102 C 101 D 100 E 99 F 98 G 97 H
West of 100 Greenwich
49
48
47
46
45
Bismarck
Dickinson
Mandan
Minot
Williston
Stanley
Watford City
Killdeer
Hettinger
Mott
Regent
Amidon
Scranton
Beach
Sentinel Butte
Medora
Belfield
New England
Hebron
Glen Ullin
Hazen
Center
Stanton
Washburn
Turtle Lake
Garrison
Riverdale
Max
Ruso
Makoti
Kenmare
Bowbells
Crosby
Noonan
Powers Lake
Berthold
Mohall
Sherwood
Portal
Westby
Rolla
Bottineau
Rugby
Towner
Cando
Langdon
Cavalier
Hallock
Pembina
Drayton
Grafton
Warren
Lakota
Devils Lake
Grand Forks
Crookston
Fessenden
New Rockford
McClusky
Harvey
Carrington
Cooperstown
Valley City
Jamestown
Fargo
Moorhead
Wahpeton
Lisbon
Ada
Hillsboro
Mayville
Portland
Finley
Page
Hunter
Casselton
Kindred
Leonard
Wyndmere
Lidgerwood
Oakes
Ellendale
Edgeley
Kulm
Napoleon
Gackle
Steele
Tappen
Ladoga
Sykeston
Carrington
Harvey
Underwood
Garrison
Turtle Lake
Washburn
Center
Stanton
Beulah
Hazen
Glen Ullin
Hebron
New England
Dickinson
Medora
Belfield
Killdeer
Hettinger
Mott
Regent
Amidon
Scranton
Beach
Sentinel Butte
Watford City
Stanley
Williston

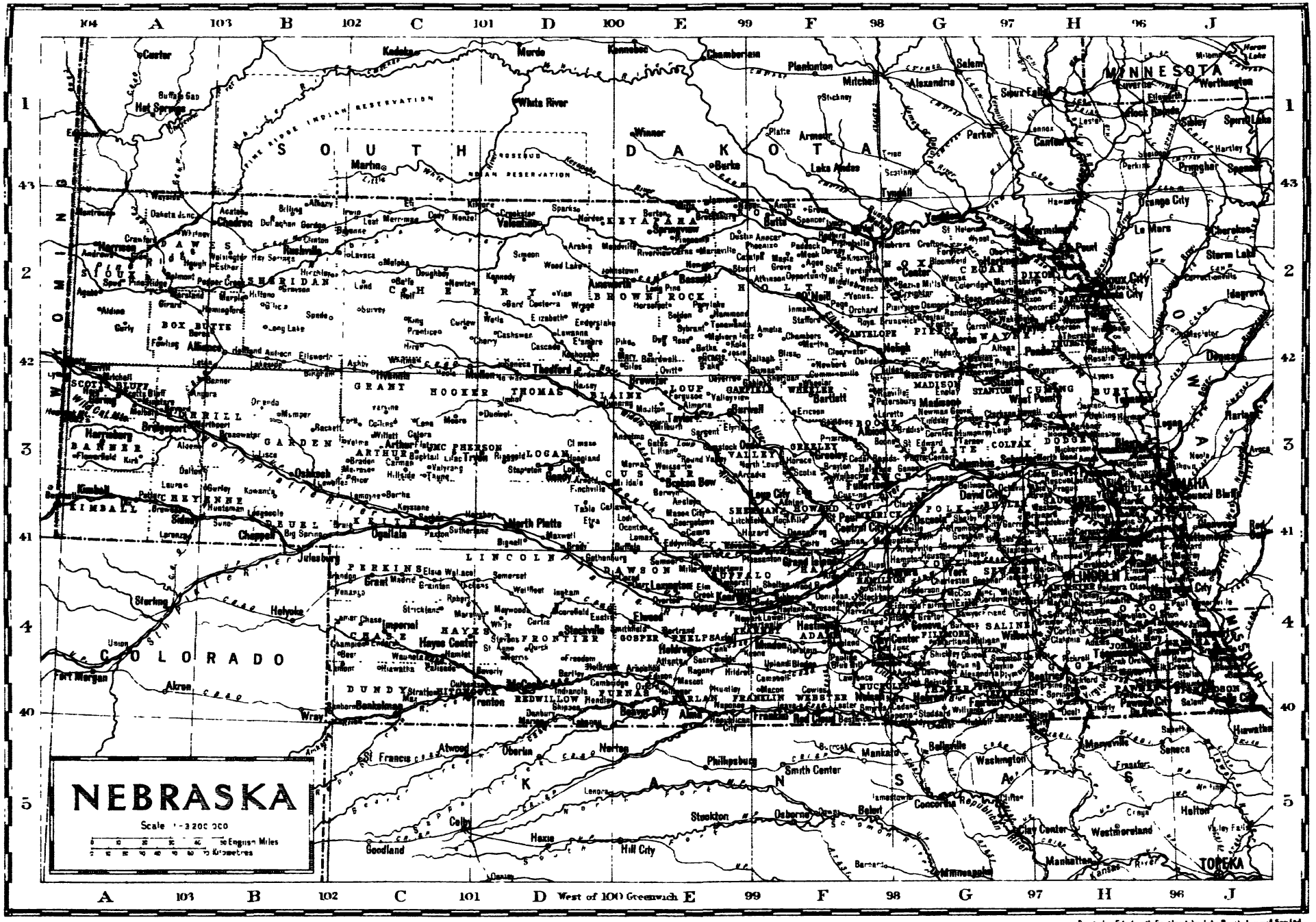


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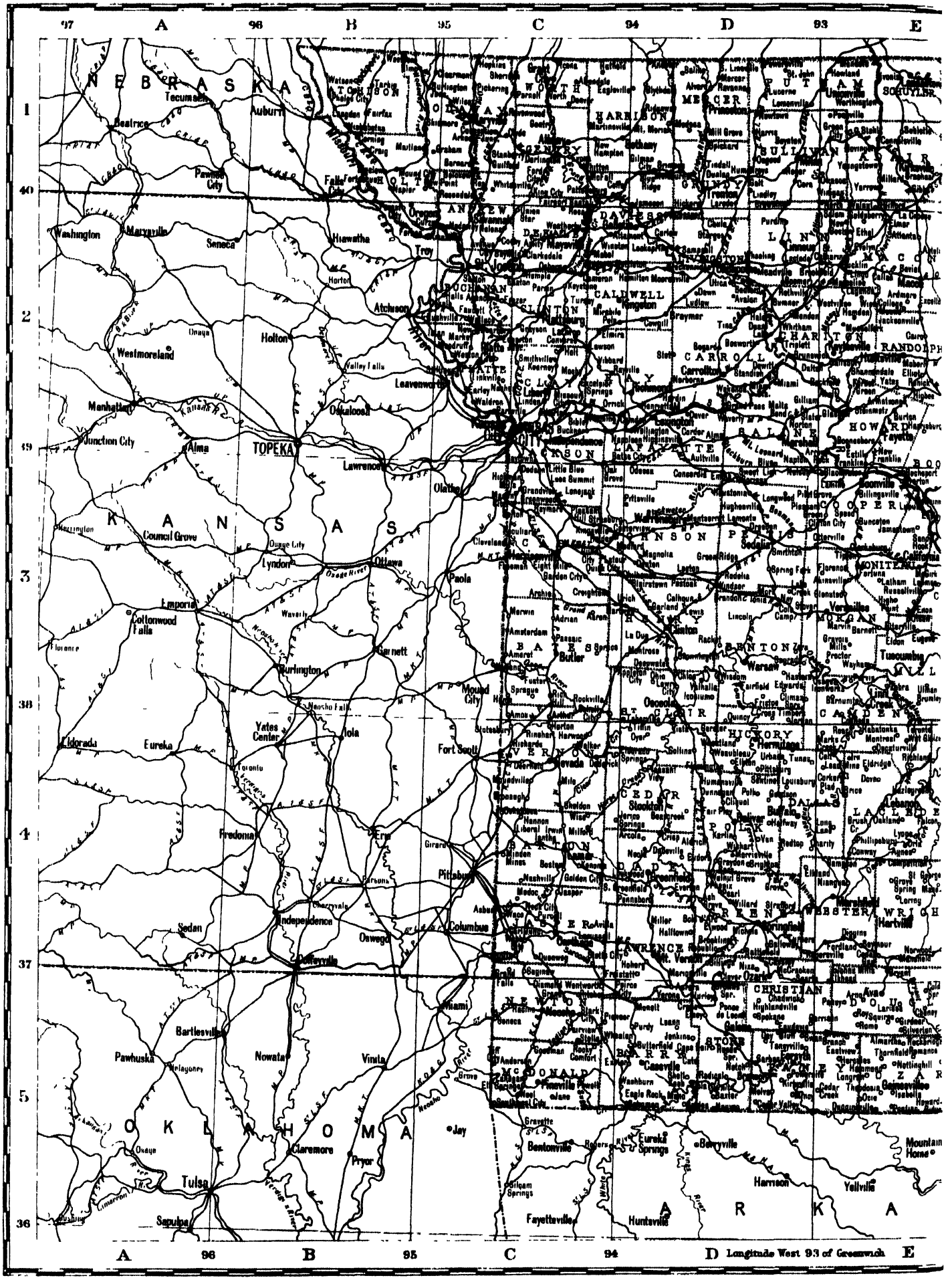
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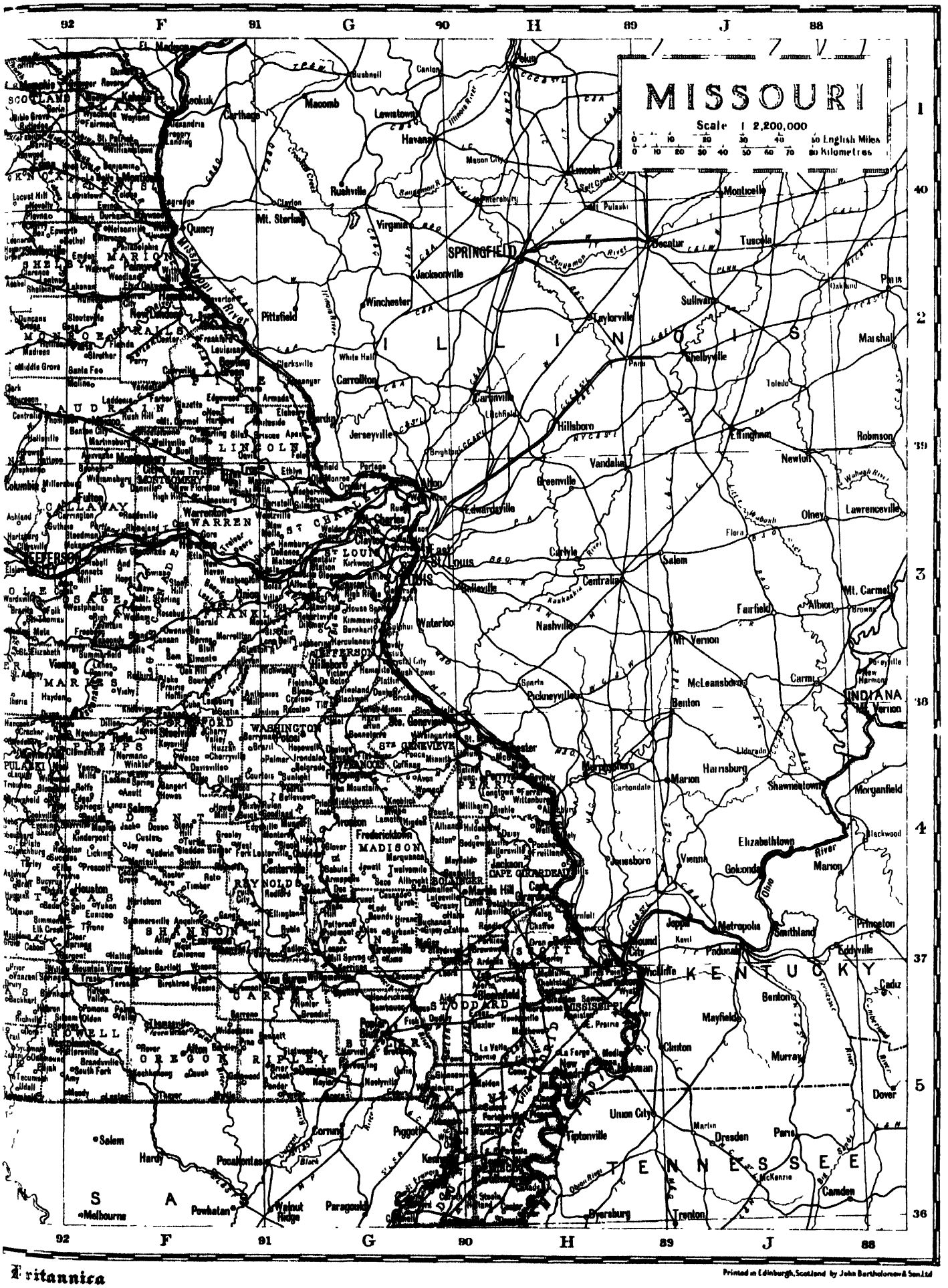


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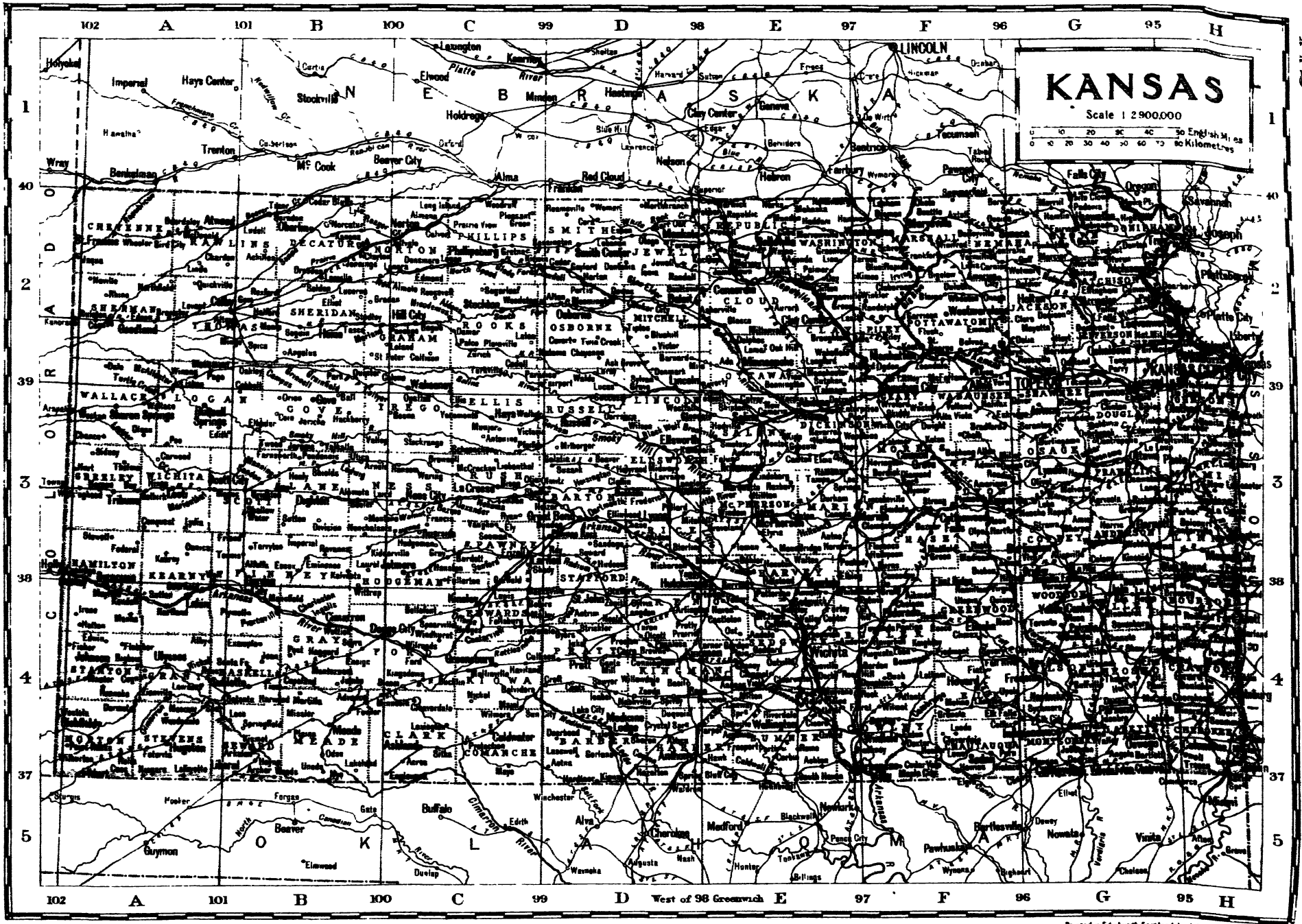


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97
A
96
B
95
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94
D
93
E
1
40
2
49
3
38
4
37
5
36
NEBRASKA
KANSAS
OKLAHOMA
ARKANSAS
Tecumseh
Auburn
Beatrice
Pawnee City
Washington
Marysville
Seneca
Hiawatha
Troy
Atchison
Holton
Westmoreland
Manhattan
Junction City
Alma
TOPEKA
Lawrence
Leavenworth
Olathe
Council Grove
Lyndon
Ottawa
Paola
Emporia
Cottonwood Falls
Garnett
Burlington
Mound City
Yates Center
Iola
Eldorado
Eureka
Fredonia
Fort Scott
Pittsburg
Sedan
Independence
Oswego
Columbus
Coffeyville
Bartlesville
Pawhuska
Nowata
Vinita
Miami
Claremore
Pryor
Tulsa
Sapulpa
Jay
Bentonville
Eureka Springs
Berryville
Harrison
Yellville
Mountain Home
Fayetteville
Huntsville
Gilpam Springs
Longitude West 93 of Greenwich

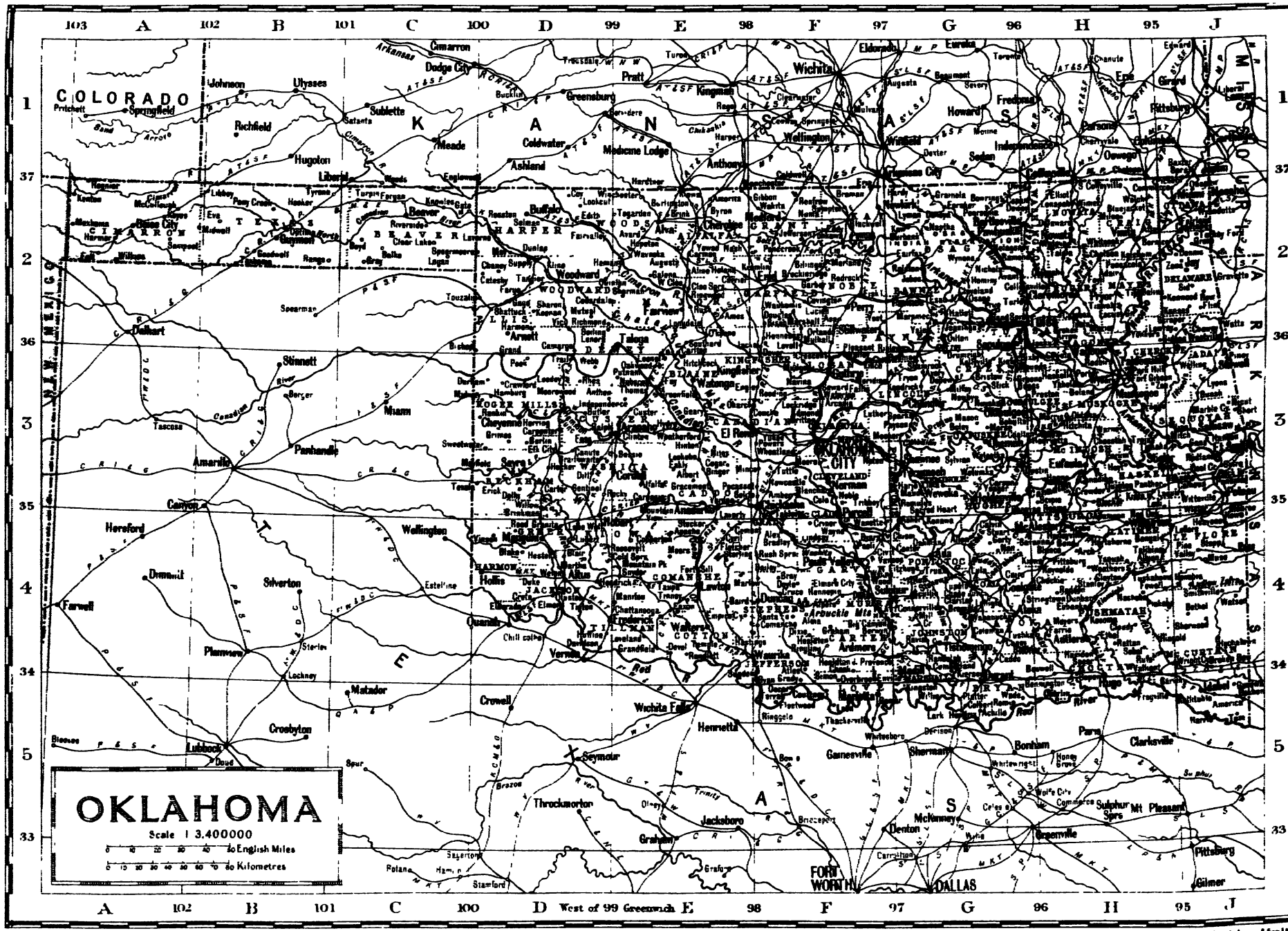


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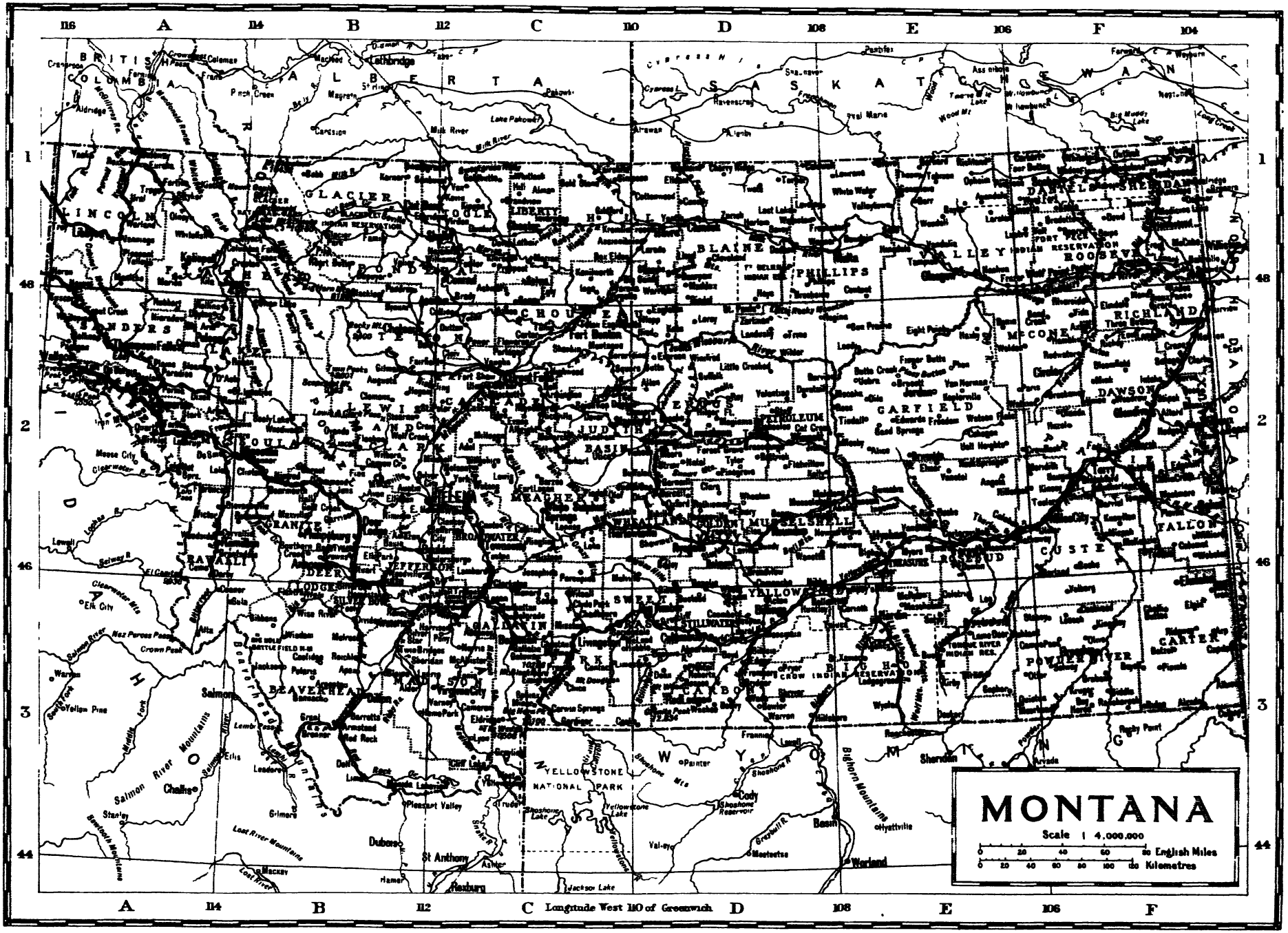


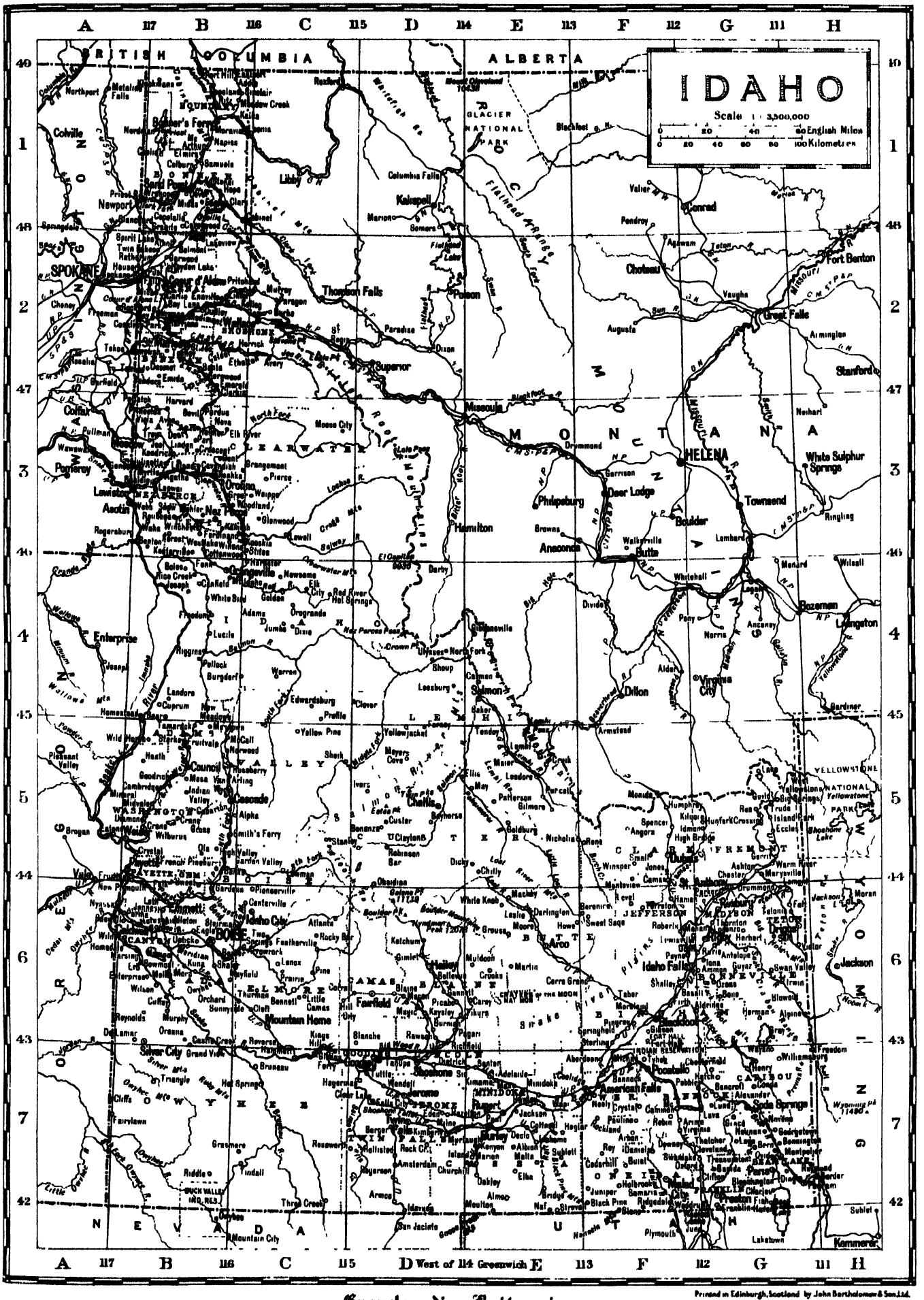
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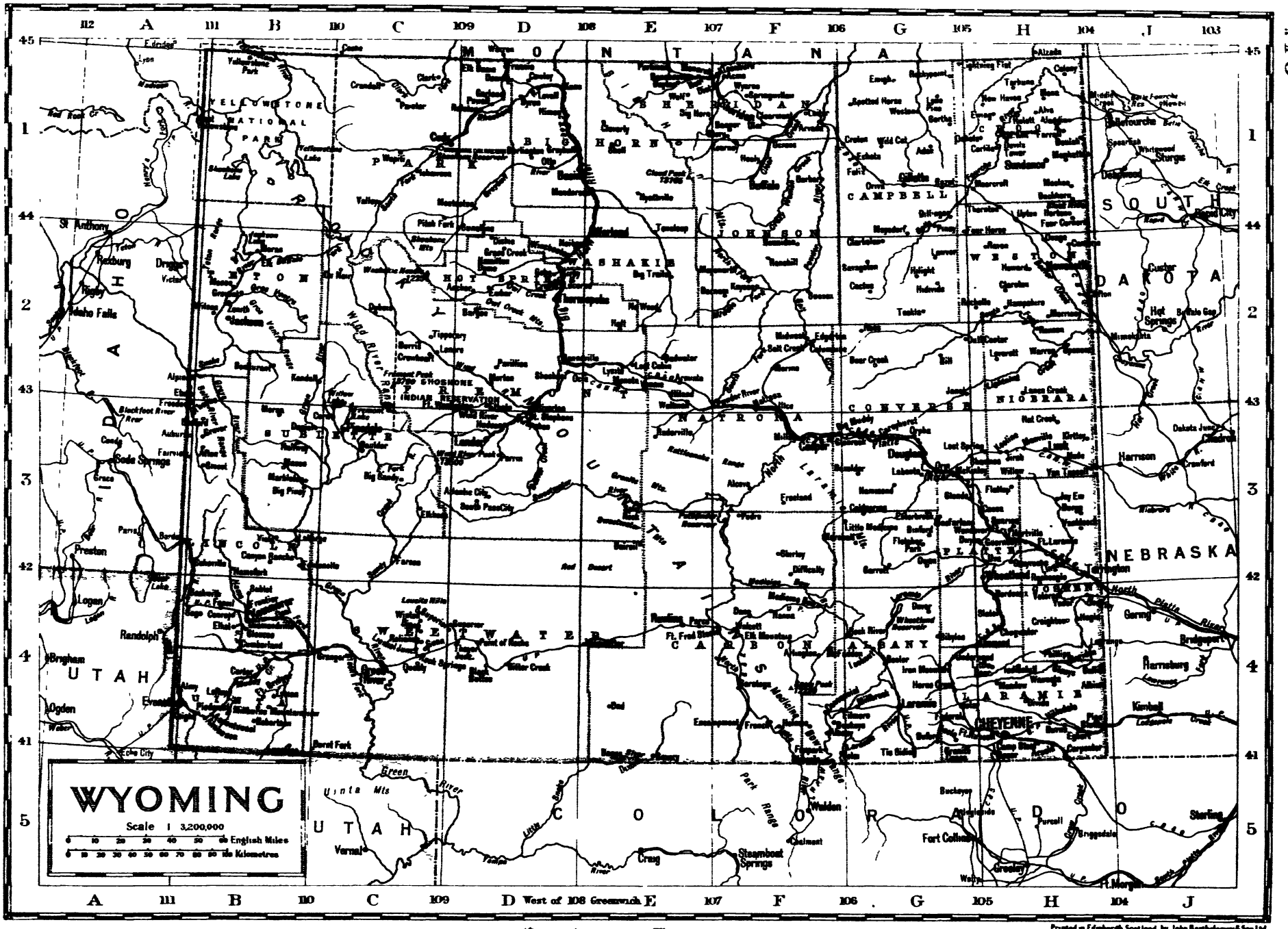
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MONTANA
Scale 1 4,000,000
English Miles
Kilometres
Longitude West 110 of Greenwich
Encyclopædia Britannica
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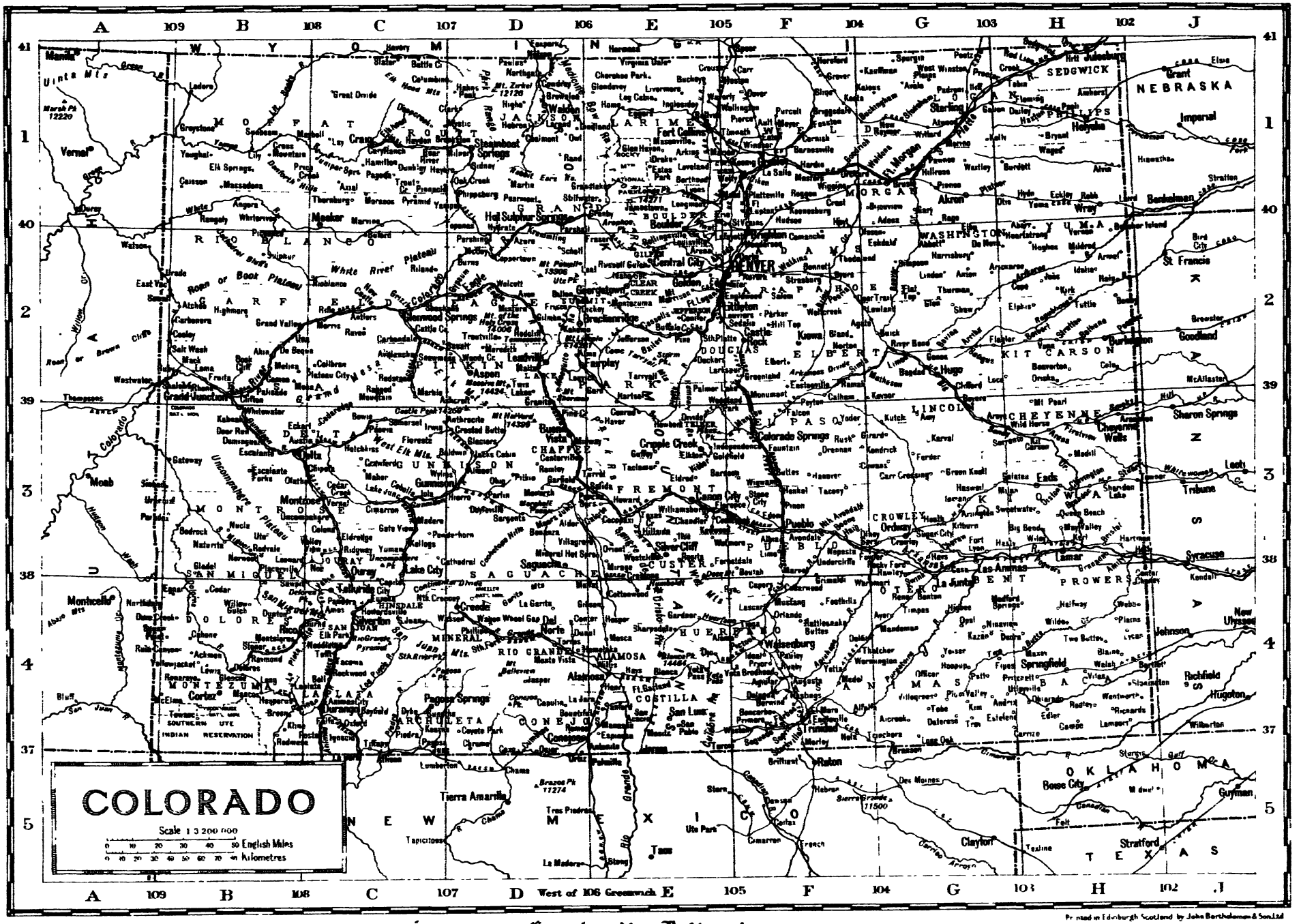
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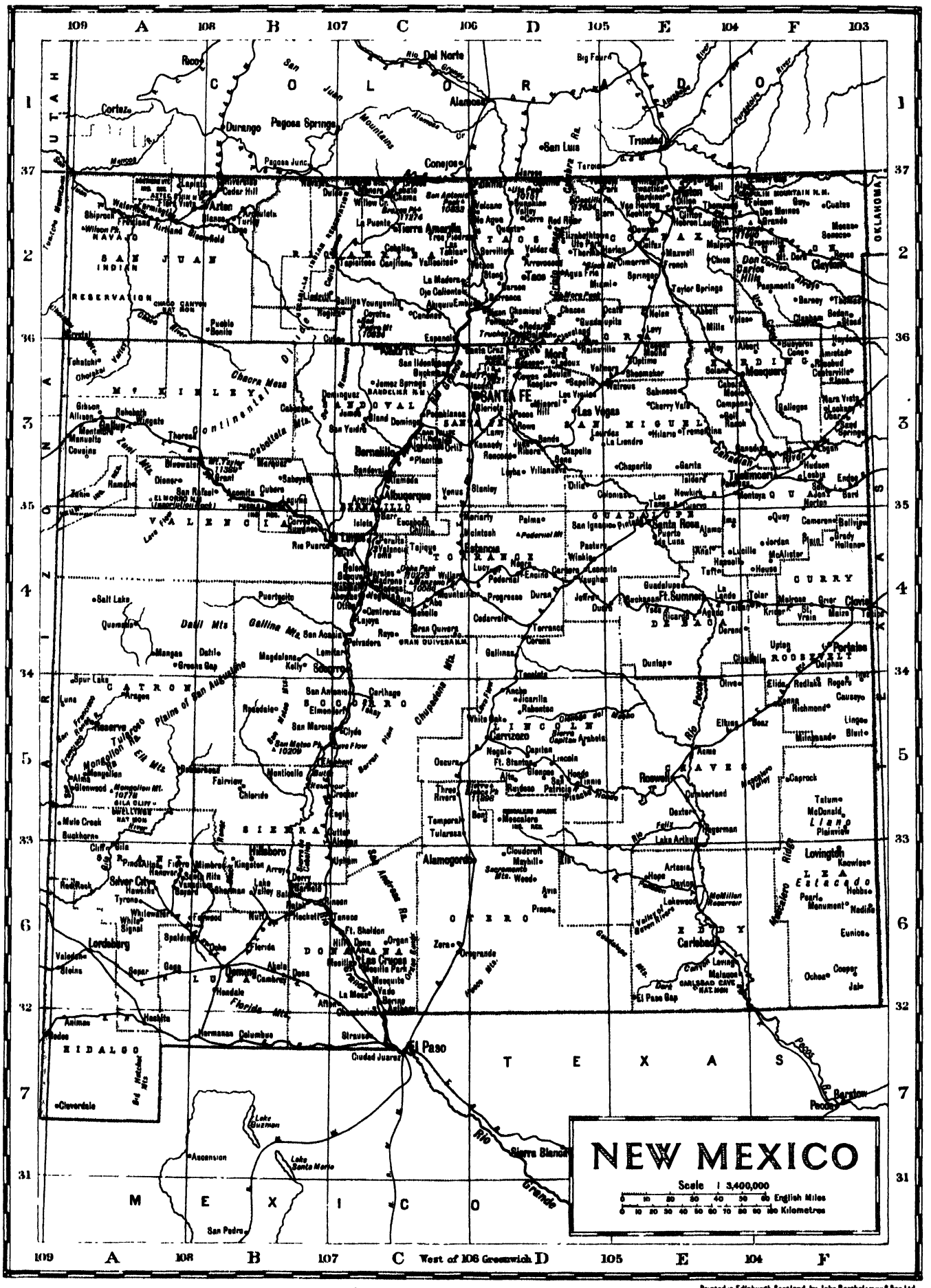


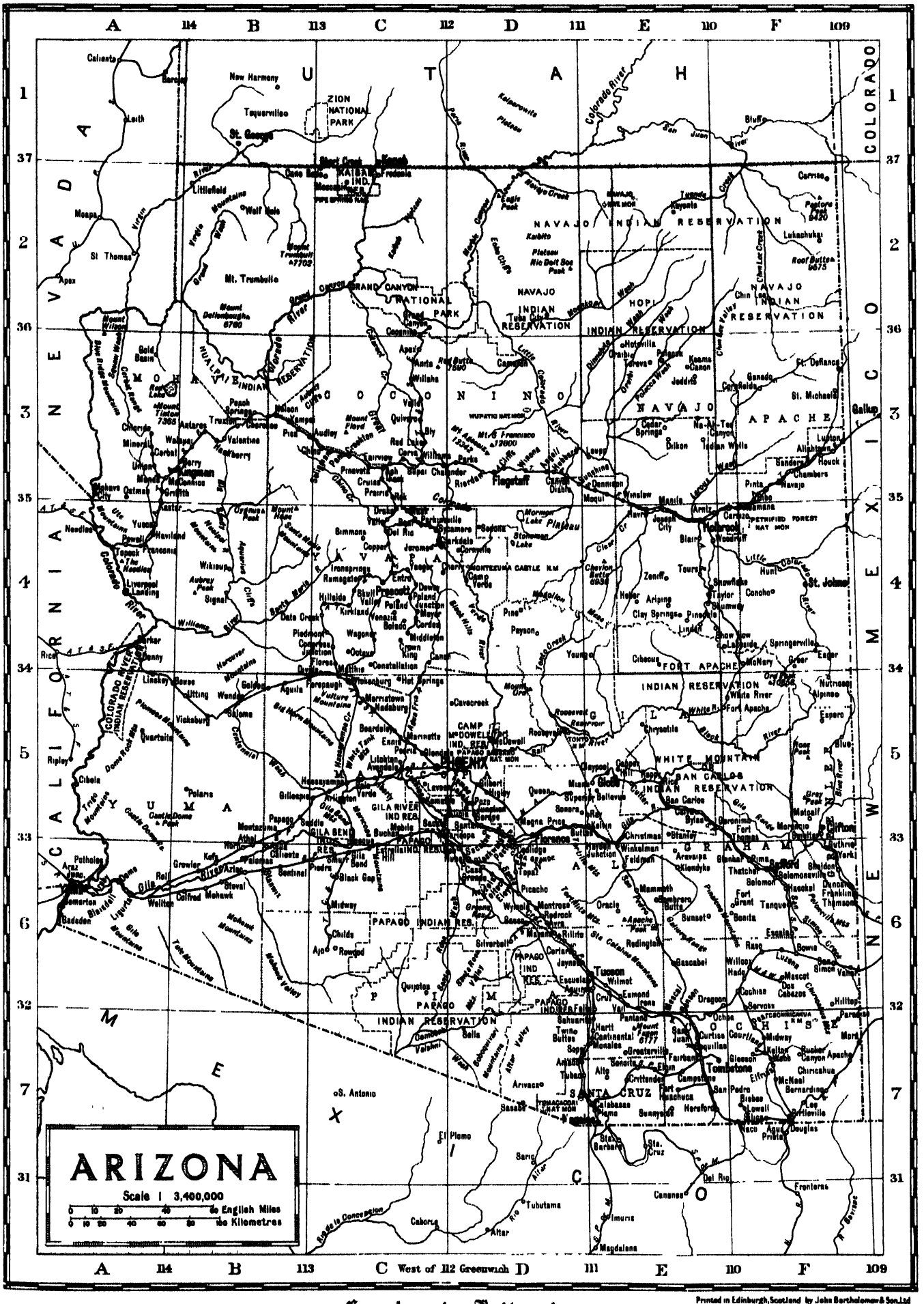
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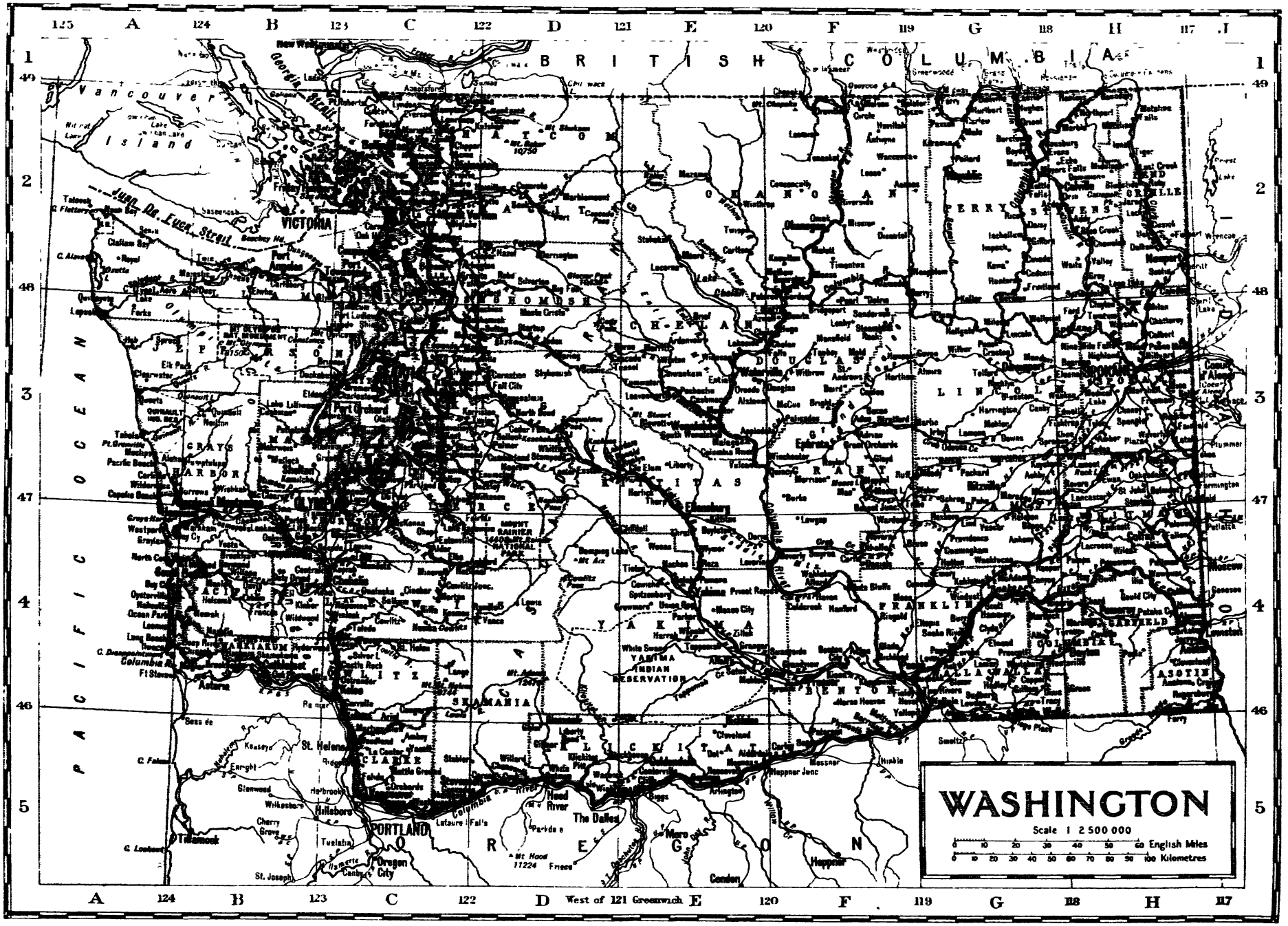


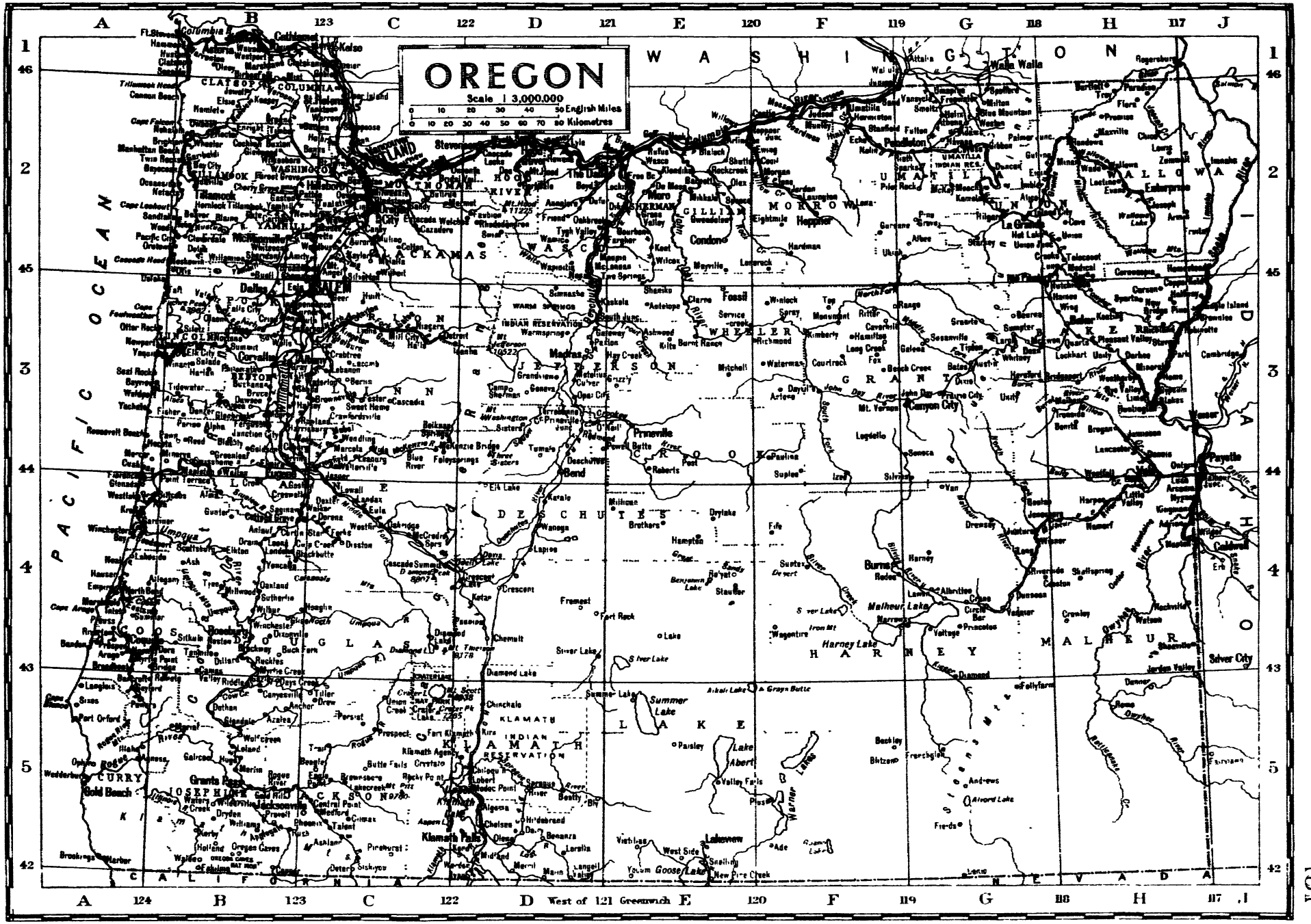
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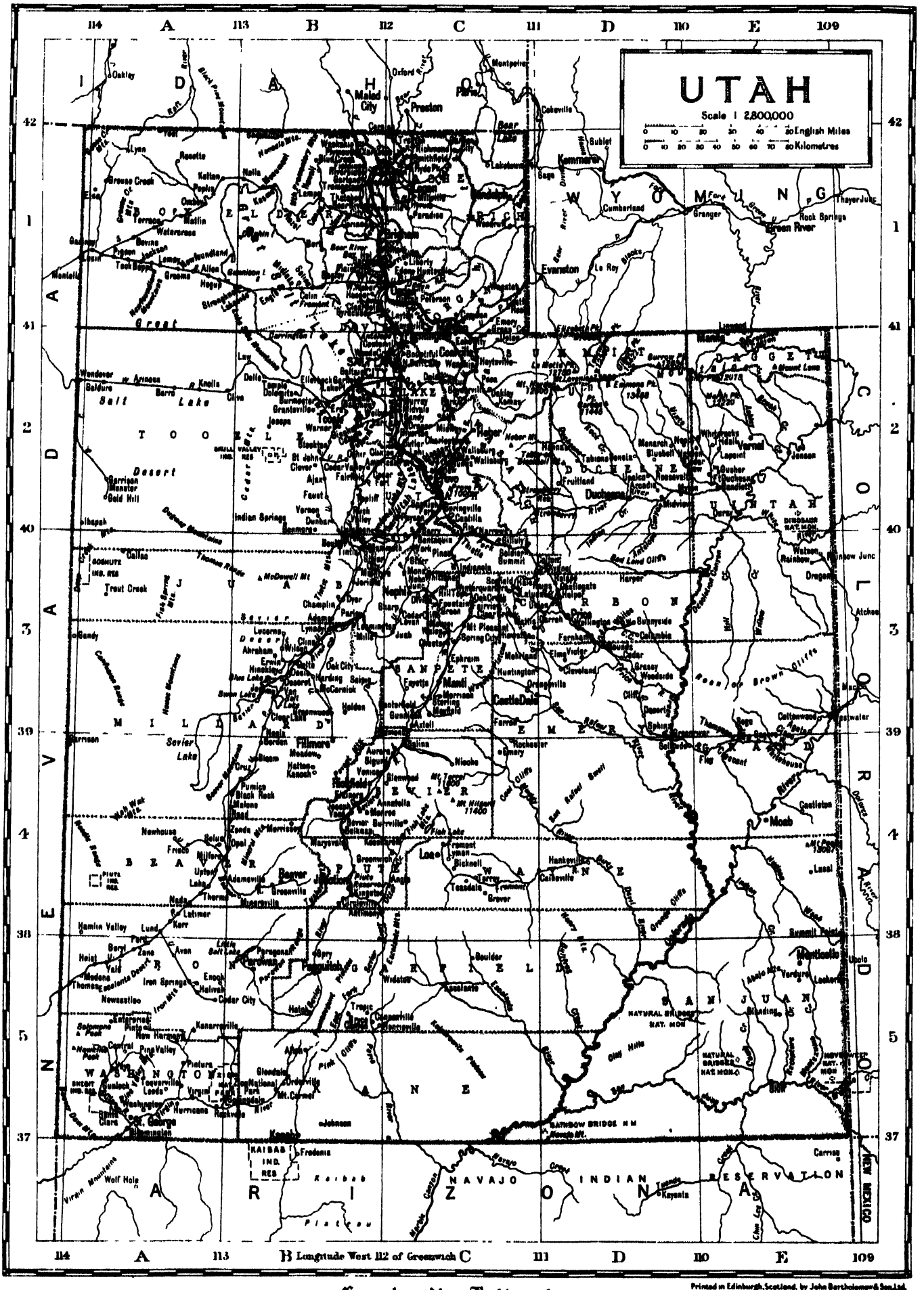

NEW MEXICO
Scale 1 3,400,000
English Miles
Kilometres
COLORADO
UTAH
OKLAHOMA
TEXAS
MEXICO
SANTA FE
Las Vegas
Albuquerque
El Paso
Ciudad Juarez
Alamogordo
Roswell
Carlsbad
Lordsburg
Deming
Silver City
Clovis
Portales
Tucumcari
Raton
Farmington
Gallup
Durango
Pagosa Springs
Conejos
Trinidad
San Luis
Rio Grande
Pecos
Canadian
Red River
Gila
San Juan
Chama
Jemez Mts
Sangre de Cristo Mts
Sacramento Mts
Guadalupe Mts
Capitan Mts
Organ Mts
Franklin Mts
Hueco Mts
Florida Mts
Black Range
Mogollon Mts
Datil Mts
Gallina Mts
Nacimiento Mts
Chuska Mts
Carrizo Mts
Oscura Mts
San Andres Mts
Jicarilla
Mescalero
Ruidoso
Alto
Capitan
Lincoln
Fort Stanton
Fort Sumner
Tucumcari
Las Vegas
Santa Fe
Albuquerque
Bernalillo
Socorro
Belen
Los Lunas
Grants
Gallup
Farmington
Aztec
Bloomfield
Shiprock
Navajo Indian Reservation
San Juan Indian Reservation
Jicarilla Apache Reservation
Mescalero Apache Reservation
Ute Mountain Indian Reservation
Continental Divide
Rio Puerco
Pecos River
Canadian River
Chama River
Gila River
San Juan River
Rio Grande
Rio Chama
Rio Puerco
Rio Salado
Rio Hondo
Rio Felix
Rio Penasco
Rio Ruidoso
Rio Bonito
Rio Tularosa
Rio Mimbres
Rio Animas
Rio Sierra Blanca
Rio Grande
Lake Valley
Lake Arthur
Lake Guzman
Lake Santa Maria
Ascension
San Pedro
Cloverdale
Animas
Hachita
Columbus
Hermanas
Sierra Blanca
Ciudad Juarez
Ft. Hancock
Clint
Tornillo
Fabens
Canutillo
Vinton
Anthony
Chamberino
Mesilla
Las Cruces
Dona Ana
Organ
Orogrande
Alamogordo
Tularosa
La Luz
Three Rivers
Carrizozo
Capitan
Ft. Stanton
Nogal
Oscura
Corona
Vaughn
Encino
Willard
Estancia
Moriarty
Mountainair
Gran Quivera
Abo
Quarai
Punta de Agua
Manzano
Torreon
Tijeras
Cedar Crest
Sandia
Placitas
Bernalillo
Corrales
Rio Rancho
Los Ranchos
Albuquerque
Isleta
Los Lunas
Belen
Jarales
Peralta
Valencia
Tome
Adelino
Dalies
Casa Colorada
Casa Salazar
Casa Grande
Casa Blanca

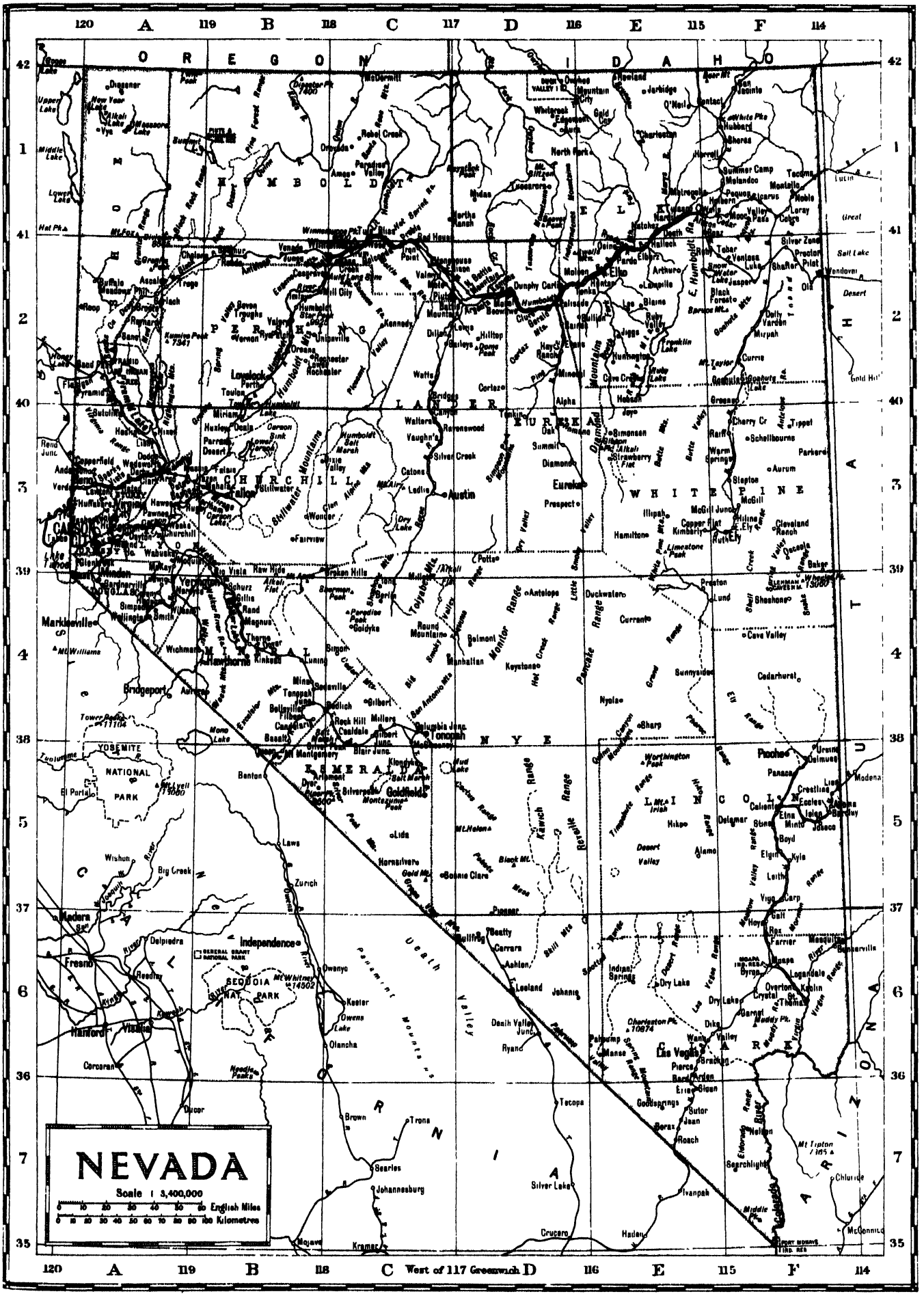


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WASHINGTON
Scale 1 2 500 000
0 10 20 30 40 50 60 English Miles
0 10 20 30 40 50 60 70 80 90 100 Kilometres
PACIFIC OCEAN
Vancouver Island
Juan De Fuca Strait
Georgia Strait
BRITISH COLUMBIA
VICTORIA
PORTLAND
Astoria
Tillamook
St. Helens
Hillsboro
Oregon City
The Dalles
Hood River
Pendleton
Walla Walla
Dayton
Colfax
Pullman
Lewiston
Asotin
Moro
Condon
Heppner
Goldendale
Yakima
Ellensburg
Wenatchee
Okanogan
Omak
Republic
Colville
Newport
Spokane
Cheney
Davenport
Ritzville
Odessa
Coulee City
Grand Coulee
Columbia River
Snake River
Yakima Indian Reservation
Mt. Rainier National Park
Mt. Adams 12307
Mt. Hood 11224
Mt. Rainier 14408
Mt. Baker 10750
Mt. Olympus 7954
Mt. Stuart 9470
Mt. Spokane 5883
Mt. Kennedy 5774
Mt. Gardner 5774
Mt. Constitution 2409
Mt. Vernon
Bellingham
Anacortes
Port Angeles
Port Townsend
Olympia
Aberdeen
Hoquiam
Raymond
Centralia
Chehalis
Kelso
Longview
Vancouver
Camas
Washougal
Stevenson
Goldendale
Toppenish
Sunnyside
Prosser
Kennewick
Pasco
Richland
Othello
Moses Lake
Ephrata
Soap Lake
Grand Coulee
Chelan
Wenatchee
Leavenworth
Cashmere
Entiat
Brewster
Oroville
Tonasket
Republic
Kettle Falls
Chewelah
Deer Park
Cheney
Medical Lake
Davenport
Reardan
Ritzville
Odessa
Coulee City
Wilbur
Creston
Harrington
Sprague
Cheney
Spokane
Newport
Metaline Falls
Ione
Usk
Cusick
Tacoma
Puyallup
Sumner
Auburn
Kent
Renton
Seattle
Everett
Snohomish
Monroe
Sultan
Gold Bar
Index
Darrington
Concrete
Sedro Woolley
Lynden
Blaine
Ferndale
Bellingham
Mount Vernon
Burlington
Anacortes
Friday Harbor
Orcas
Lopez
Shaw
Waldron
Sidney
Saanich
Victoria
Sooke
Port Angeles
Sequim
Port Townsend
Coupeville
Oak Harbor
Langley
Clinton
Coupeville
Port Ludlow
Port Gamble
Kingston
Poulsbo
Bremerton
Port Orchard
Gig Harbor
Tacoma
Puyallup
Sumner
Auburn
Kent
Renton
Seattle
Bellevue
Issaquah
North Bend
Snoqualmie
Fall City
Carnation
Duvall

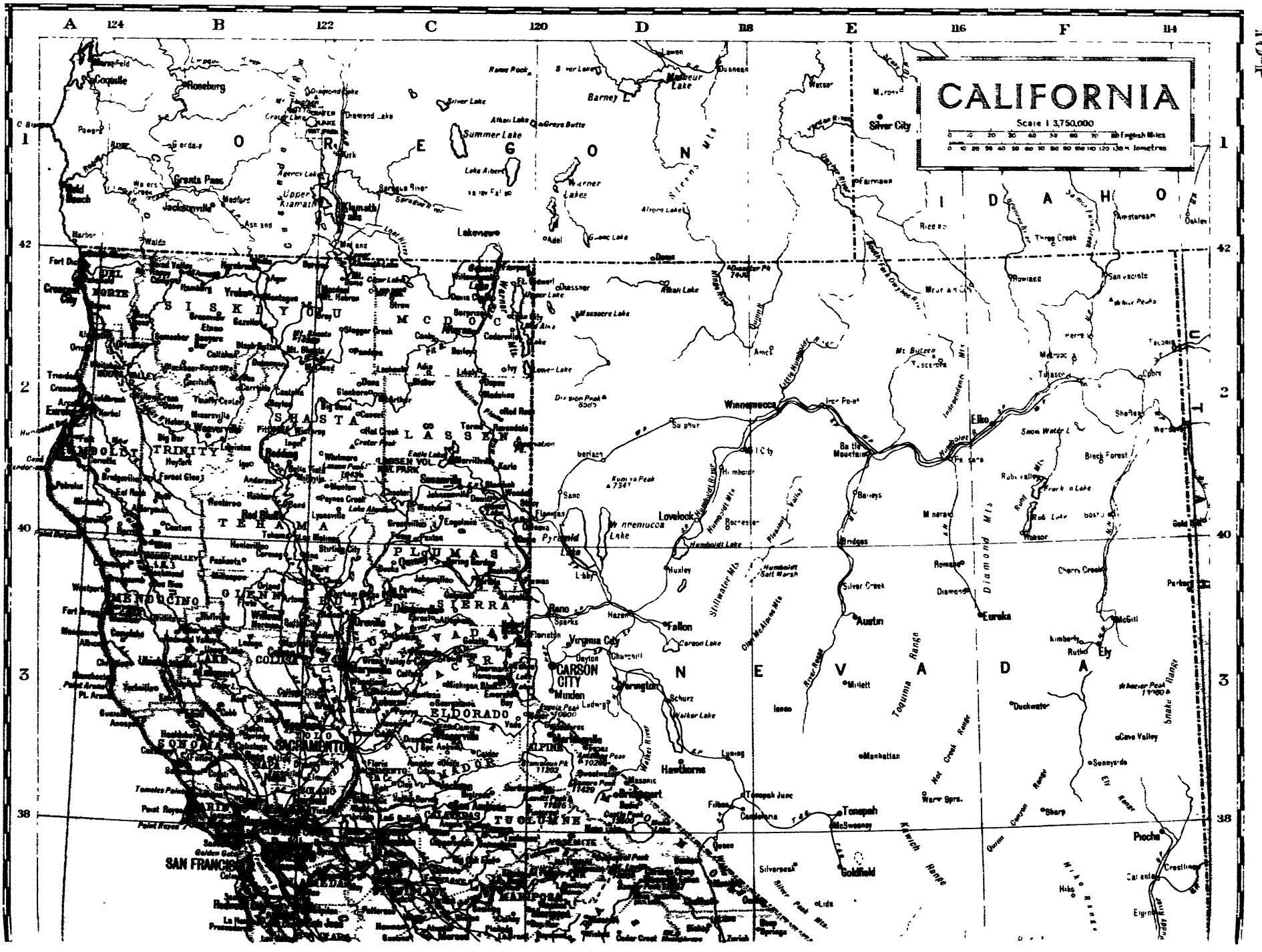

OREGON
Scale 1 3,000,000
0 10 20 30 40 50 English Miles
0 10 20 30 40 50 60 70 80 Kilometres
WASHINGTON
IDAHO
NEVADA
CALIFORNIA
PACIFIC OCEAN
COLUMBIA
CLATSOP
TILLAMOOK
WASHINGTON
YAMHILL
MULTNOMAH
CLACKAMAS
HOOD RIVER
WASCO
SHERMAN
GILLIAM
MORROW
UMATILLA
UNION
WALLOWA
LINCOLN
BENTON
LINN
MARION
POLK
JEFFERSON
WHEELER
GRANT
BAKER
DESCHUTES
CROOK
LAKE
KLAMATH
HARNEY
MALHEUR
LANE
DOUGLAS
COOS
CURRY
JOSEPHINE
JACKSON
Portland
Salem
Eugene
Astoria
Medford
Klamath Falls
Bend
Prineville
Pendleton
La Grande
Baker
Ontario
Burns
Lakeview
Coos Bay
Roseburg
Grants Pass
Gold Beach
Crater Lake
Summer Lake
Harney Lake
Malheur Lake
Silver Lake
Abert Lake
Goose Lake
Columbia R.
Willamette R.
Snake R.
Deschutes R.
John Day R.
Owyhee R.
Malheur R.
Klamath R.
Rogue R.
Umpqua R.
Coquille R.
Chetco R.
Mt. Hood
Mt. Jefferson
Mt. Washington
Three Sisters
Diamond Peak
Mt. Scott
Mt. Thielsen
Mt. McLoughlin
Steens Mt.
Hart Mt.
Abert Rim
Warner Lakes
Alvord Lake
Owyhee Reservoir
Malheur Reservoir
Ochoco Reservoir
Prineville Reservoir
Crane Prairie Reservoir
Wickiup Reservoir
Crescent Lake
Odell Lake
Diamond Lake
Klamath Lake
Upper Klamath Lake
Agency Lake
Tule Lake
Lost River
Clear Lake
Gerber Reservoir
Malheur Lake
Harney Lake
Silver Lake
Summer Lake
Goose Lake
Lake Abert

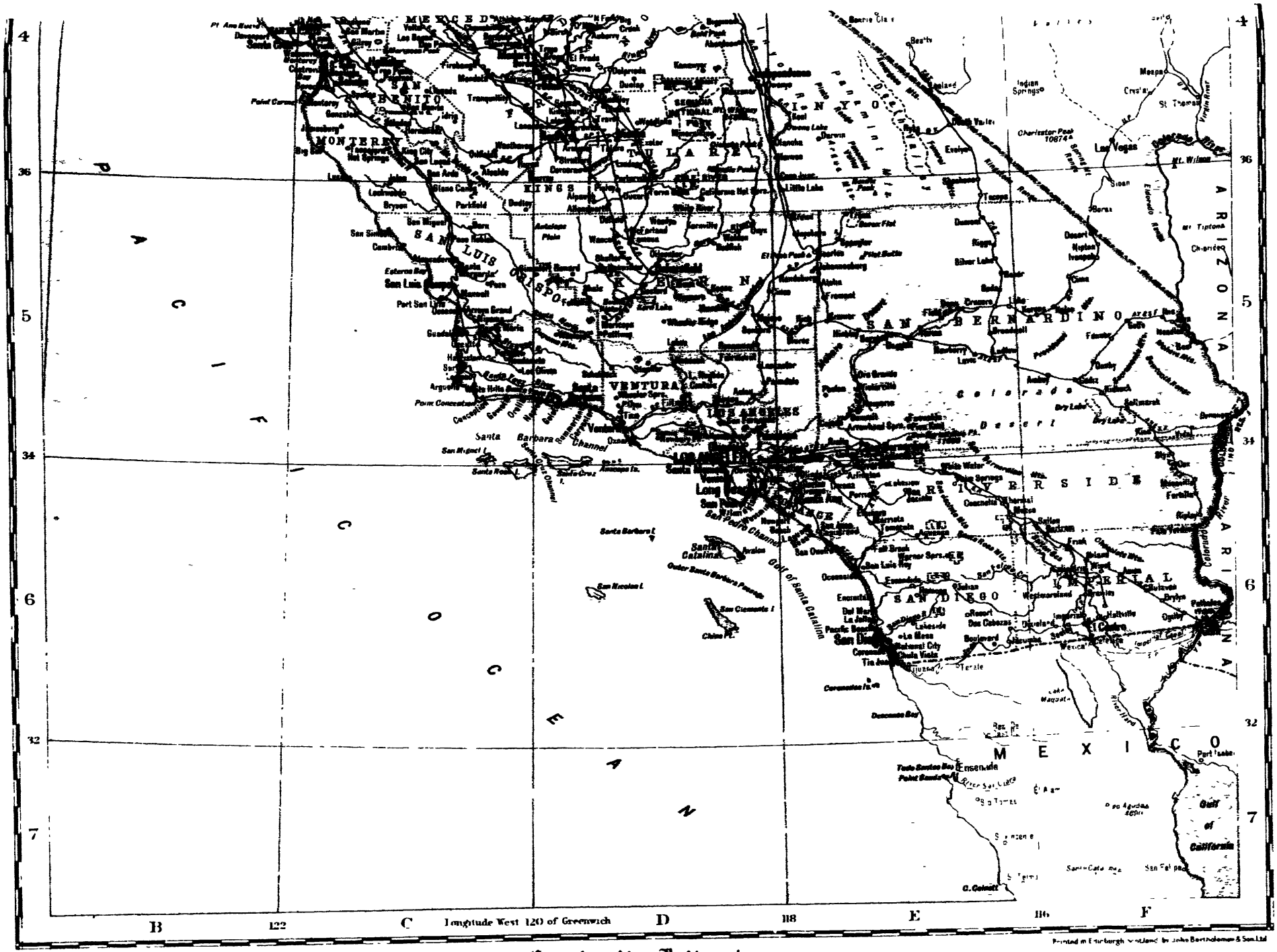

UTAH
Scale 1 2,800,000
0 10 20 30 40 50 English Miles
0 10 20 30 40 50 60 70 80 Kilometres
Salt Lake City
Ogden
Provo
Logan
Great Salt Lake
Great Salt Lake Desert
Utah Lake
Sevier Lake
Bear Lake
Green River
Colorado River
San Juan River
Grand Canyon
Glen Canyon
Arches
Canyonlands
Natural Bridges
Rainbow Bridge
Monument Valley
Navajo Mountain
Kaibab Plateau
Zion
Bryce Canyon
Cedar Breaks
Capitol Reef
Dinosaur
Uinta Mountains
Wasatch Mountains
Henry Mountains
La Sal Mountains
Abajo Mountains
Navajo Indian Reservation
Kaibab Ind. Res.
Uintah and Ouray Ind. Res.
Skull Valley Ind. Res.
Deseret
Garrison
Gold Hill
Wendover
Baldwin
Arnoux
Knolls
Barro
Clive
Dolle
Lapoint
Whiterocks
Ft Duchesne
Roosevelt
Myton
Jensen
Vernal
Dragon
Watson
Rainbow Junc
Atchee
Mack
Westwater
Cisco
Thompson
Crescent Junction
Green River
Rock Springs
Thayer Junc
Granger
Cumberland
Kemmerer
Sage
Sublett
Evanston
Le Roy
Woodruff
Randolph
Laketown
Garden City
Logan
Hyrum
Wellsville
Mendon
Cache Junction
Smithfield
Richmond
Lewiston
Preston
Oxford
Montpelier
Soda Springs
Paris
Bloomington
Georgetown
Geneva
Dingle
Oakley
Malad City
Rosetta
Lyon
Kelton
Portage
Plymouth
Tremonton
Bear River City
Honeyville
Corinne
Brigham City
Willard
Perry
Plain City
Ogden
Roy
Clearfield
Layton
Kaysville
Centerville
Bountiful
Woods Cross
West Jordan
Sandy
Draper
Lehi
American Fork
Pleasant Grove
Orem
Provo
Springville
Spanish Fork
Payson
Salem
Genola
Santaquin
Goshen
Eureka
Tintic Junction
Mammoth
Silver City
Dividend
Elberta
Fairfield
Cedar Valley
Lincoln
Saratoga
Lake Point
Tooele
Grantsville
Stockton
Ophir
Clover
St John
Dugway
Ibapah
Callao
Trout Creek
Partoun
Wendover
Knolls
Barro
Clive
Delle
Lakeside
Garrison
Monster
Gold Hill
Indian Springs
Vernon
Dunbar
Fayette
Ephraim
Manti
Sterling
Mayfield
Gunnison
Axtell
Salina
Aurora
Sigurd
Redmond
Richfield
Glenwood
Monroe
Annabella
Sevier
Joseph
Elsinore
Monroe
Venice
Central
Koosharem
Fremont
Loa
Lyman
Bicknell
Torrey
Teasdale
Grover
Hanksville
Caineville
Green River
Thompson
Crescent Junction
Cisco
Dewey
Arches
Moab
Castleton
La Sal
Summit Point
Monticello
Blanding
Verdure
Loeheer
Natural Bridges Nat. Mon.
Rainbow Bridge N.M.
Navajo Mountain
Kaibab Ind. Res.
Fredonia
Kanab
Johnson
Alton
Glendale
Orderville
Mt. Carmel
Zion National Park
Virgin
Rockville
Springdale
Hurricane
La Verkin
Pine Valley
New Harmony
Kanarraville
Cedar City
Enoch
Paragonah
Parowan
Summit
Beaver
Minersville
Milford
Frisco
Newhouse
Black Rock
Pumice
Hatton
Kanosh
Fillmore
Meadow
Oak City
Leamington
Lynndyl
Delta
Abraham
Deseret
Oasis
Sutherland
Hinckley
Blue Lake
Swan Lake
Scipio
Holden
Corinne
Garrison
Hamlin Valley
Lund
Parowan
Iron Springs
Newcastle
Modena
Veyo
Pine Valley
Central
Pintura
Leeds
Toquerville
Virgin
Washington
Santa Clara
Ivins
Gunlock
Enterprise
Escalante
Boulder
Widtsoe
Henrieville
Tropic
Cannonville
Clarkdale
Panguitch
Hatch
Alton
Kanab
Fredonia
Kaibab Ind. Res.
Navajo Indian Reservation
Tuba City
Kayenta
Carrizo
New Mexico
Wolf Hole
Virgin Mountains
Kaibab Plateau
Paria Plateau
Glen Canyon
Colorado River
San Juan River
Green River
Duchesne River
Price River
Strawberry River
Provo River
Weber River
Bear River
Jordan River
Sevier River
Virgin River
Escalante River
Paria River
Little Colorado River
Dirty Devil River
Fremont River
Muddy Creek
Cottonwood Creek
Big Cottonwood Creek
Little Cottonwood Creek
Parleys Canyon
Emigration Canyon
Red Butte Canyon
Provo Canyon
Spanish Fork Canyon
Soldier Summit
Price Canyon
Nine Mile Canyon
Desolation Canyon
Gray Canyon
Book Cliffs
Roan Cliffs
Tavaputs Plateau
Uinta Mountains
Henry Mountains
La Sal Mountains
Abajo Mountains
Wasatch Mountains
Oquirrh Mountains
Stansbury Mountains
Cedar Mountains
Deep Creek Mountains
Confusion Range
Drum Mountains
House Range
Canyon Range
Pavant Range
Tushar Mountains
Sevier Plateau
Aquarius Plateau
Kaiparowits Plateau
Table Cliffs Plateau
Markagunt Plateau
Paunsaugunt Plateau
Gilbert Peak 13,422
Kings Peak 13,498
Mt Nebo 11,877
Mt Timpanogos 11,750
Mt Olympus 9,026
Twin Peaks 11,330
Lone Peak 11,253
Box Elder Peak 9,372
Ben Lomond Peak 9,712
Mt Ogden 9,570
Mt Naomi 9,980
Mt Pleasant 9,602
Mt Terrace 11,708
Mt Hillers 11,452
Mt Ellen 11,947
Mt Pennell 11,727
Mt Hillers 11,452
Mt Ellen 11,947
Mt Pennell 11,727
Mt Tukuhnikivatz 12,482
Mt Peale 12,721
Mt Waas 11,359
Mt Linnaeus 12,273
Mt Mellenthin 12,182
Mt Tukuhnikivatz 12,482
Mt Peale 12,721
Mt Waas 11,359
Mt Linnaeus 12,273
Mt Mellenthin 12,182
Mt Ellen 11,947
Mt Pennell 11,727
Mt Hillers 11,452
Mt Terrace 11,708
Mt Pleasant 9,602
Mt Naomi 9,980
Mt Ogden 9,570
Ben Lomond Peak 9,712
Box Elder Peak 9,372
Lone Peak 11,253
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Mt Nebo 11,877
Kings Peak 13,498
Gilbert Peak 13,422



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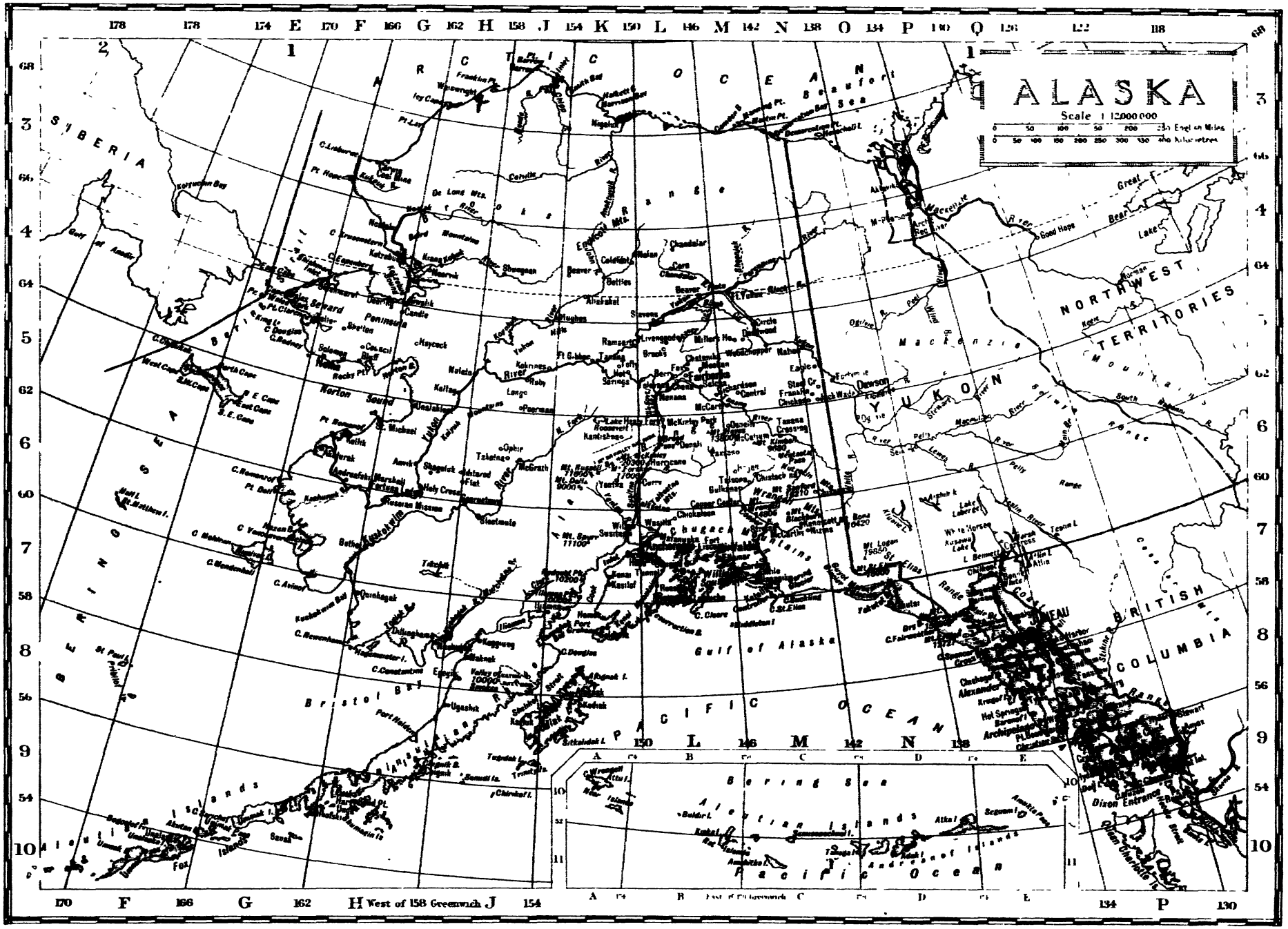
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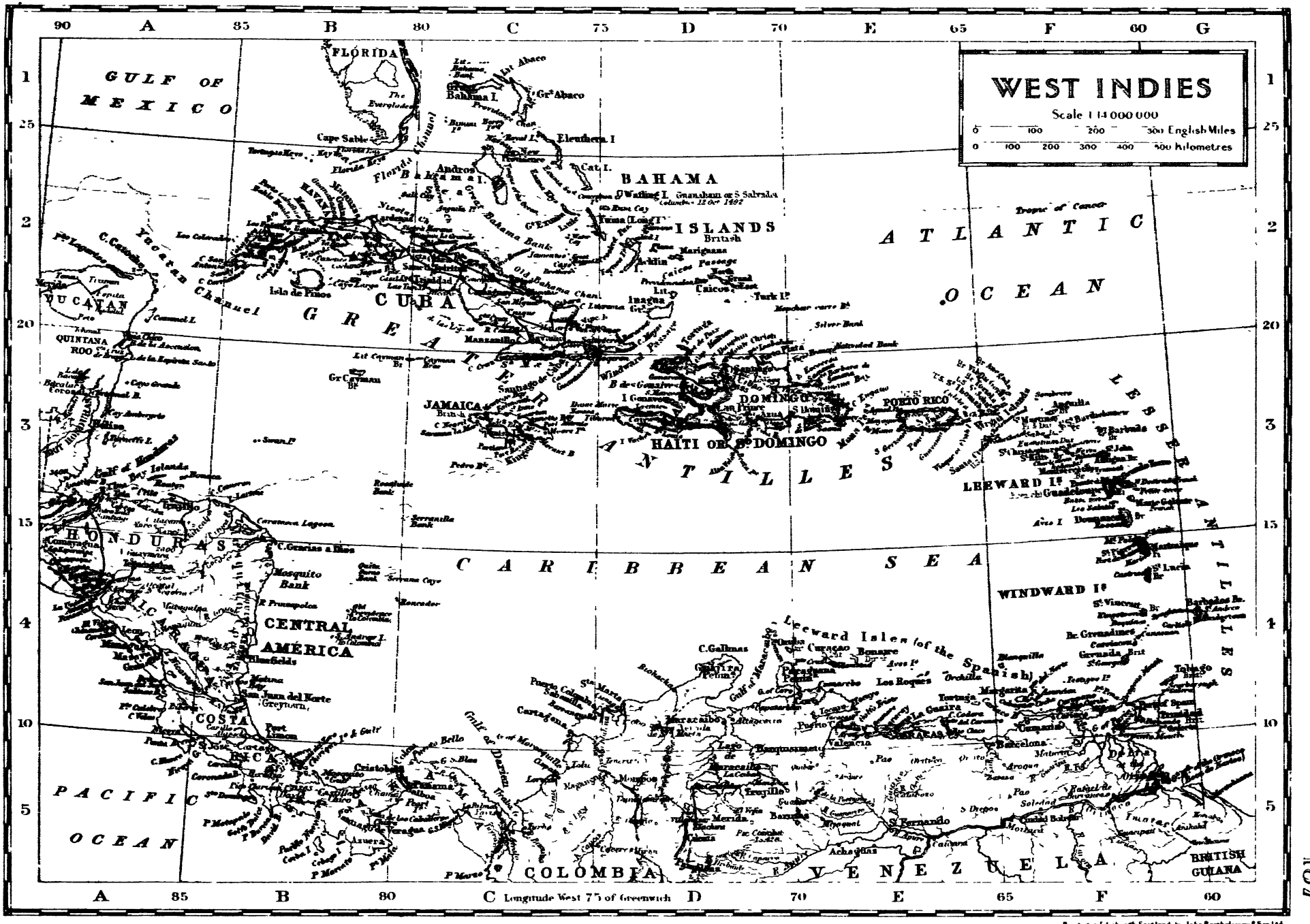

CALIFORNIA
Scale 1:3,750,000
A
B
C
D
E
F
124
122
120
118
116
114
42
40
38
3
2
1
OREGON
NEVADA
IDAHO
SISKIYOU
MODOC
SHASTA
LASSEN
TRINITY
TEHAMA
PLUMAS
MENDOCINO
LAKE
SIERRA
NEVADA
COLUSA
GLENN
BUTTE
PLACER
EL DORADO
SACRAMENTO
YOLO
SONOMA
NAPA
ALPINE
AMADOR
CALAVERAS
TUOLUMNE
CARSON CITY
SAN FRANCISCO
Klamath Falls
Lakeview
Alturas
Susanville
Redding
Eureka
Crescent City
Fort Bragg
Ukiah
Willits
Clear Lake
Lake Tahoe
Reno
Sparks
Virginia City
Fallon
Winnemucca
Lovelock
Pyramid Lake
Humboldt Lake
Carson Lake
Walker Lake
Hawthorne
Tonopah
Goldfield
Austin
Eureka
Ely
Elko
Wells
Battle Mountain
Mercury
Rachel
Area 51
Groom Lake
Indian Springs
Las Vegas
Pahrump
Beatty
Death Valley
Furnace Creek
Stateline
Zephyr Cove
Glenbrook
Incline Village
Truckee
Donner Pass
Sierra City
Downieville
Quincy
Portola
Susanville
Lassen Volcanic Park
Mount Lassen
Shasta Lake
Mount Shasta
Weed
Yreka
Dunsmuir
Mount Eddy
Trinity Alps
Trinity Lake
Weaverville
Hoopa
Orleans
Willow Creek
Arcata
Eureka
Fortuna
Ferndale
Rio Dell
Scotia
Garberville
Leggett
Laytonville
Covelo
Round Valley
Willits
Ukiah
Hopland
Cloverdale
Healdsburg
Santa Rosa
Petaluma
Sebastopol
Bodega Bay
Point Reyes
Point Arena
Mendocino
Fort Bragg
Westport
Willits
Clear Lake
Lakeport
Kelseyville
Middletown
Calistoga
St. Helena
Napa
Vallejo
Benicia
Martinez
Pittsburg
Antioch
Concord
Walnut Creek
Oakland
Berkeley
Alameda
San Leandro
Hayward
Fremont
Newark
Union City
San Mateo
Redwood City
Palo Alto
Mountain View
Los Altos
Sunnyvale
Santa Clara
San Jose
Milpitas
Alviso
Gilroy
Hollister
San Juan Bautista
Watsonville
Santa Cruz
Capitola
Aptos
Soquel
Scotts Valley
Boulder Creek
Big Basin
Davenport
Half Moon Bay
Pescadero
San Gregorio
La Honda
Woodside
Portola Valley
Menlo Park
Atherton
Belmont
San Carlos
Redwood Shores
Foster City
Burlingame
Millbrae
San Bruno
South San Francisco
Daly City
Colma
San Francisco
Golden Gate
Sausalito
Mill Valley
San Rafael
Novato
Petaluma



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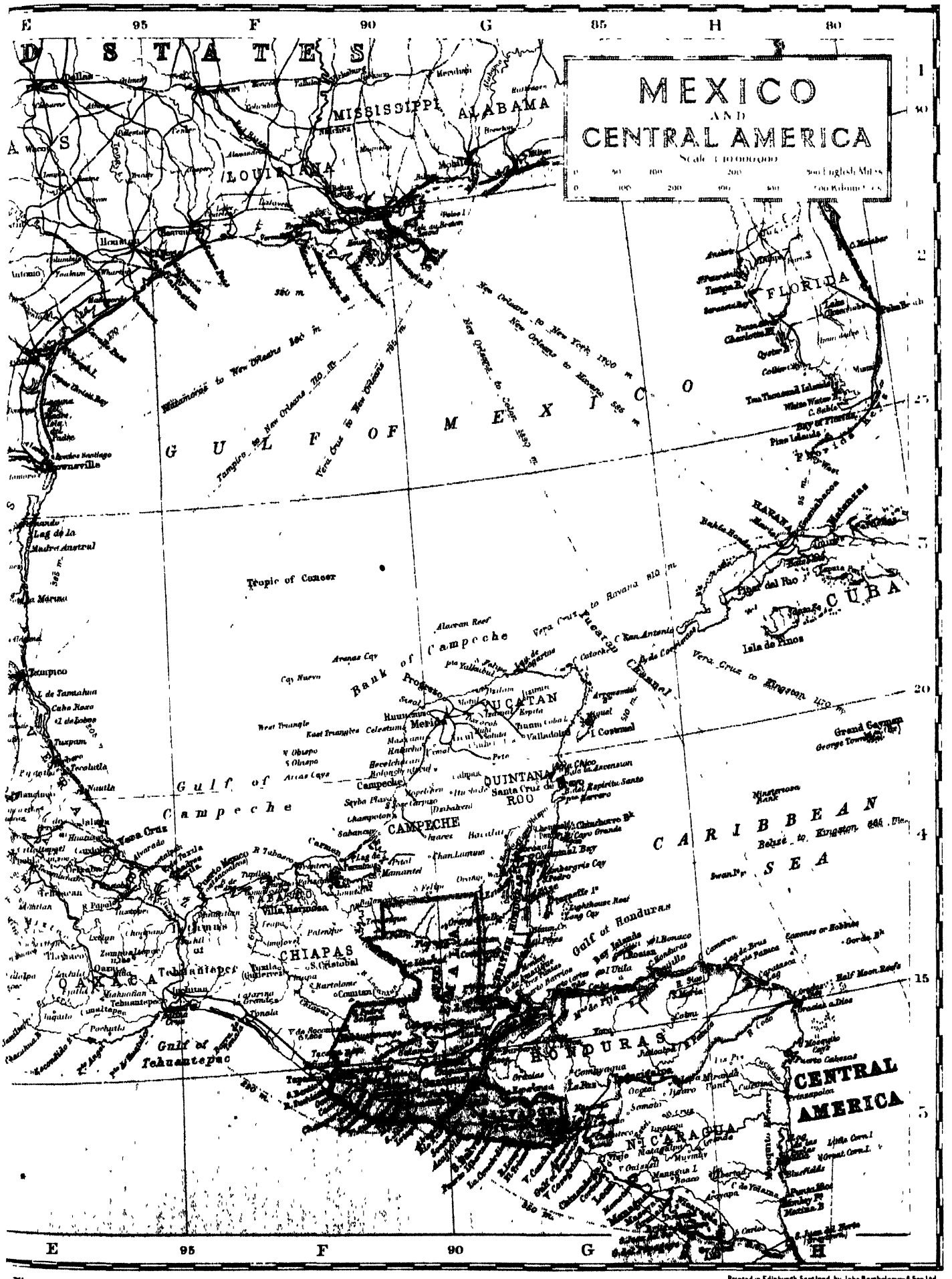

ALASKA
Scale 1:12,000,000
0 50 100 150 200 250 300 350 400 English Miles
0 50 100 150 200 250 300 350 400 Kilometres
ARCTIC OCEAN
Beaufort Sea
SIBERIA
NORTHWEST TERRITORIES
YUKON
BRITISH COLUMBIA
Gulf of Alaska
PACIFIC OCEAN
Bering Sea
Aleutian Islands
Bristol Bay
Dawson
JUNEAU
Mackenzie Mts.
Brooks Range
Alaska Peninsula
Kodiak I.
Pribilof Is.
Andreanof Islands
Dixon Entrance
Queen Charlotte Is.
Mt. McKinley 20300
Mt. Logan 19850
Mt. St. Elias 18008
Mt. Wrangell 14005
Mt. Bona 16420
Mt. Blackburn 16140
Mt. Sanford 16208
Mt. Churchill 15638
Mt. Fairweather 15300
Mt. Hubbard 15015
Mt. Vancouver 15700
Mt. Cook 9000
Mt. Russell 11670
Mt. Sanford 11940
Mt. Sanford 11100
Mt. Sanford 10300
Mt. Sanford 10000
Mt. Sanford 9000
Mt. Sanford 9000
Mt. Sanford 9



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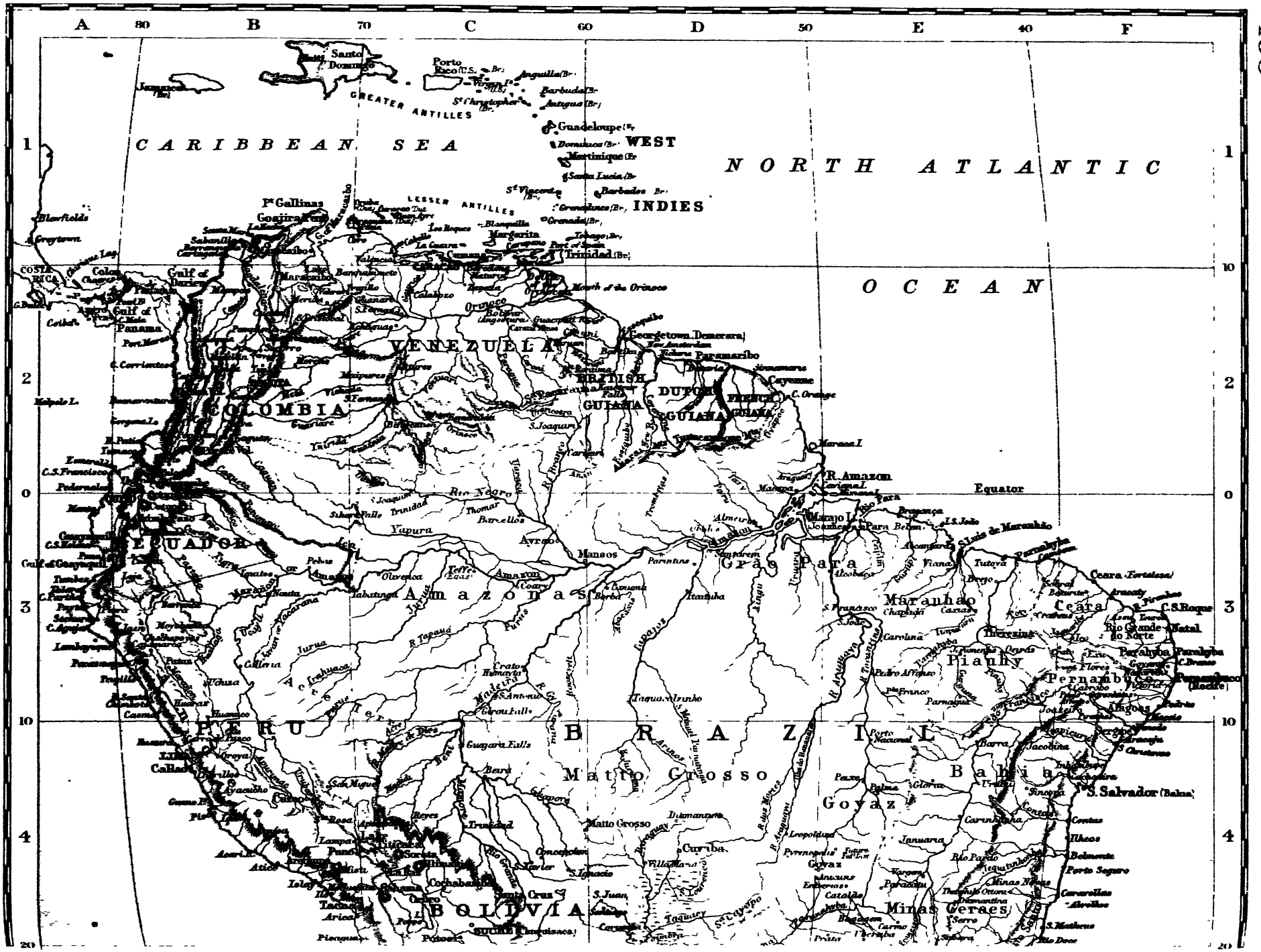
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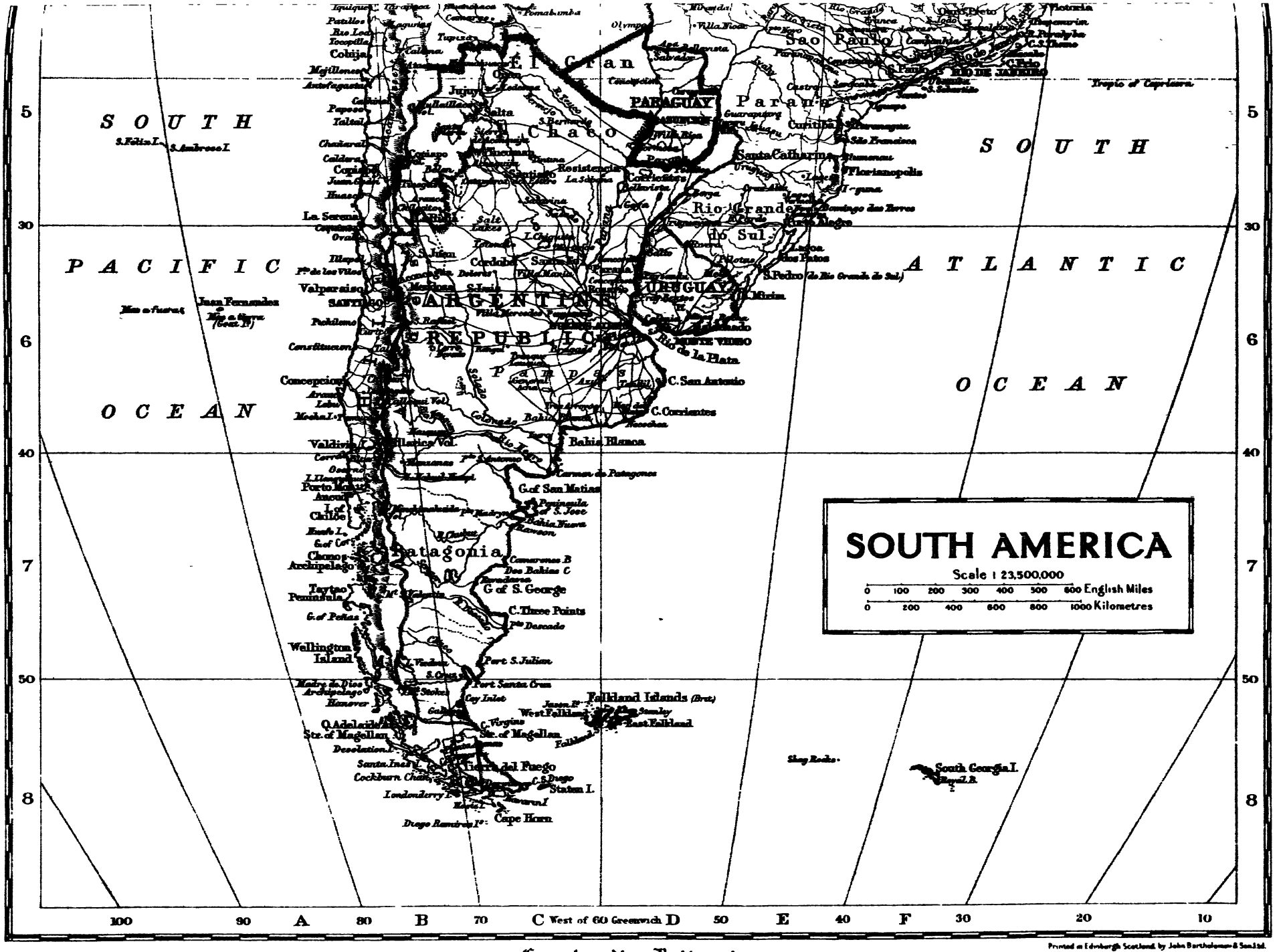

ARIZONA
NEW MEXICO
U N I T E
T E
SONORA
CHIHUAHUA
COAHUILA
NUEVO
LEON
DURANGO
ZACATECAS
M E X I C O
S LUIS POTOSI
NAYARIT
HIDALGO
MICH
GUERRERO
PACIFIC
OCEAN
CALIFORNIA
Sierra Mojada
Bolson de Mapimi
Parral
Monterey
Saltillo
Durango
Zacatecas
Guadalajara
Guanajuato
Queretaro
Mexico
Acapulco
Manzanillo
Mazatlan
Lerdo
Laredo
Reville
Gigedo Is
I. Socorro
Roca partida
San Francisco
Salina Cruz
1500 miles
NICARAGUA
CARIBBEAN
SEA
CENTRAL
AMERICA
Gulf of Darien
Gulf of Panama
COLOMBIA
CONTINUATION SOUTHWARD
On the same scale
B 110 C 105 D 100
G 85 H 80 J
Longitude West 100 of Greenwich



Britannica

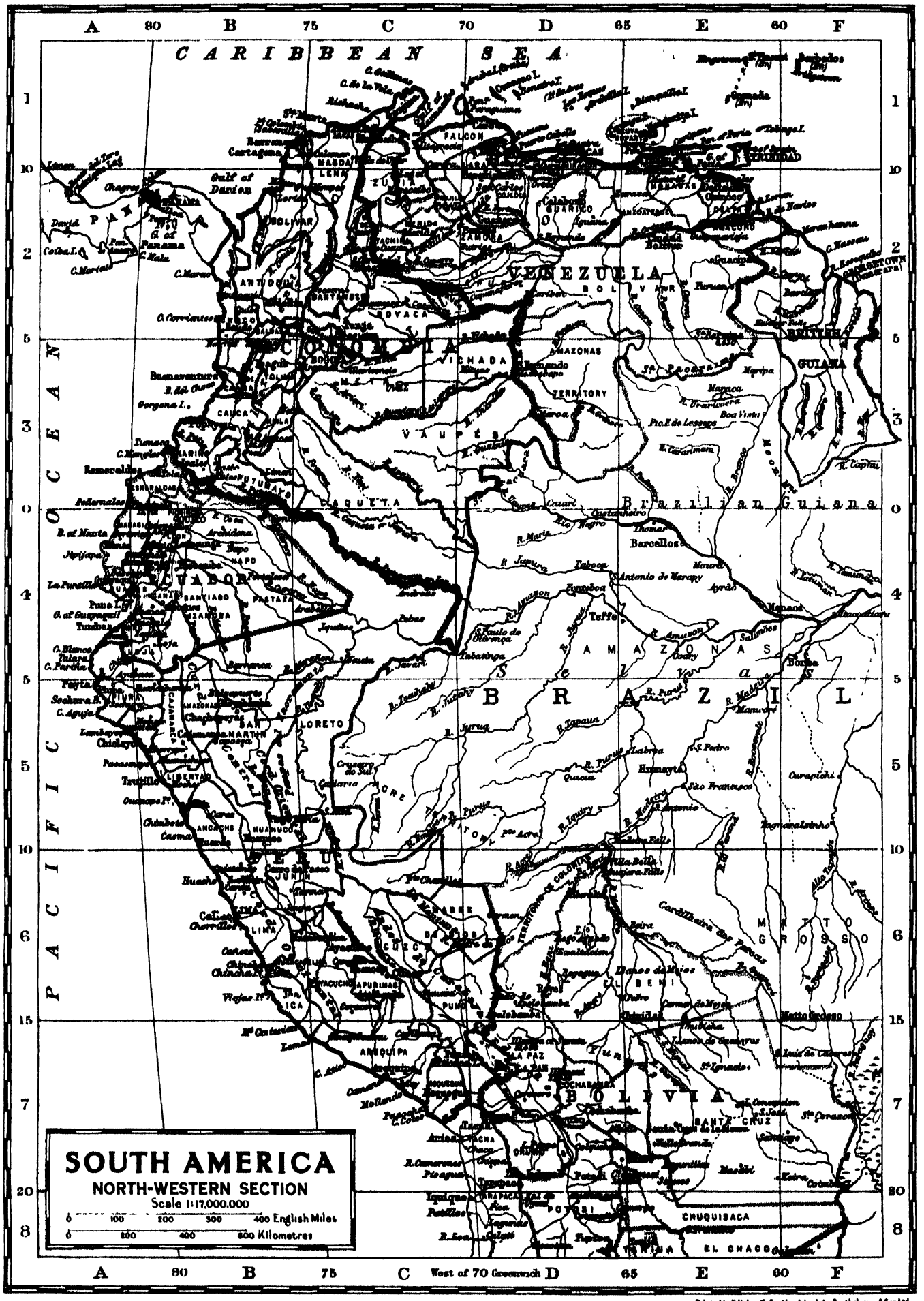
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A
B
C
D
E
F
80
70
60
50
40
1
2
3
4
10
20
CARIBBEAN SEA
NORTH ATLANTIC OCEAN
GREATER ANTILLES
LESSER ANTILLES
WEST INDIES
Santo Domingo
Porto Rico
Jamaica
Guadeloupe
Martinique
Barbados
Trinidad
Pt Gallinas
Goajira Pen.
Blanquilla
Margarita
Tobago
Blairfields
Georgetown
Demerara
Paramaribo
Cayenne
C. Orange
VENEZUELA
COLOMBIA
BRITISH GUIANA
DUTCH GUIANA
FRENCH GUIANA
ECUADOR
PERU
BRAZIL
BOLIVIA
Gulf of Darien
Gulf of Panama
Gulf of Guayaquil
Maracaibo
Lake Maracaibo
Orinoco
Mouth of the Orinoco
Panama
Colon
Caracas
Valencia
Barquisimeto
Merida
Maracay
Calabozo
Angostura
Barcellos
Rio Negro
Yapura
Ayrao
Manaos
Parentins
Obidos
Amazonas
Gran Para
Maranhao
Ceara
Piauhy
Pernambuco
Alagoas
Sergipe
Bahia
Goyaz
Matto Grosso
Minas Geraes
Equator
R. Amazon
Marajo I.
Maranhão
Tutoya
Viana
Caxias
Parnahyba
Fortaleza
Natal
Rio Grande do Norte
Paraiba
Recife
Olinda
Barra
Jacobina
S. Salvador (Bahia)
Ilheos
Porto Seguro
Caravellas
Rio Doce
S. Matheus
Januaria
Leopoldina
Diamantina
Cuyaba
Villa Maria
Concepcion
S. Ignacio
S. Juan
Santa Cruz
Cochabamba
Oruro
La Paz
Sorata
Titicaca
Puno
Arequipa
Cuzco
Ayacucho
Lima
Callao
Truxillo
Payta
Guayaquil
Quito
Tumbez
Panama
Bogota
Cartagena
Maracaibo
Rio Negro
Rio Branco
Rio Madeira
Rio Purus
Rio Javary
Rio Yapura
Rio Japura
Rio Solimoes
Rio Tapajos
Rio Xingu
Rio Tocantins
Rio Araguay
Rio Paraguay
Rio Guapore
Rio Paraguay
Rio Francisco
Rio Grande
Rio Parnahyba
Rio Pardo
Rio Mucury
Rio Doce
Rio Belmonte
Rio Pardo
Rio Contas
Rio Paraguassu
Rio Jequitinhonha
Rio Grande
Rio Tieté
Rio Paraiba
Rio Parahyba
Rio Sapucahy
Rio Pardo
Rio Grande
Rio Pardo
Rio Parahyba
Rio Sapucahy

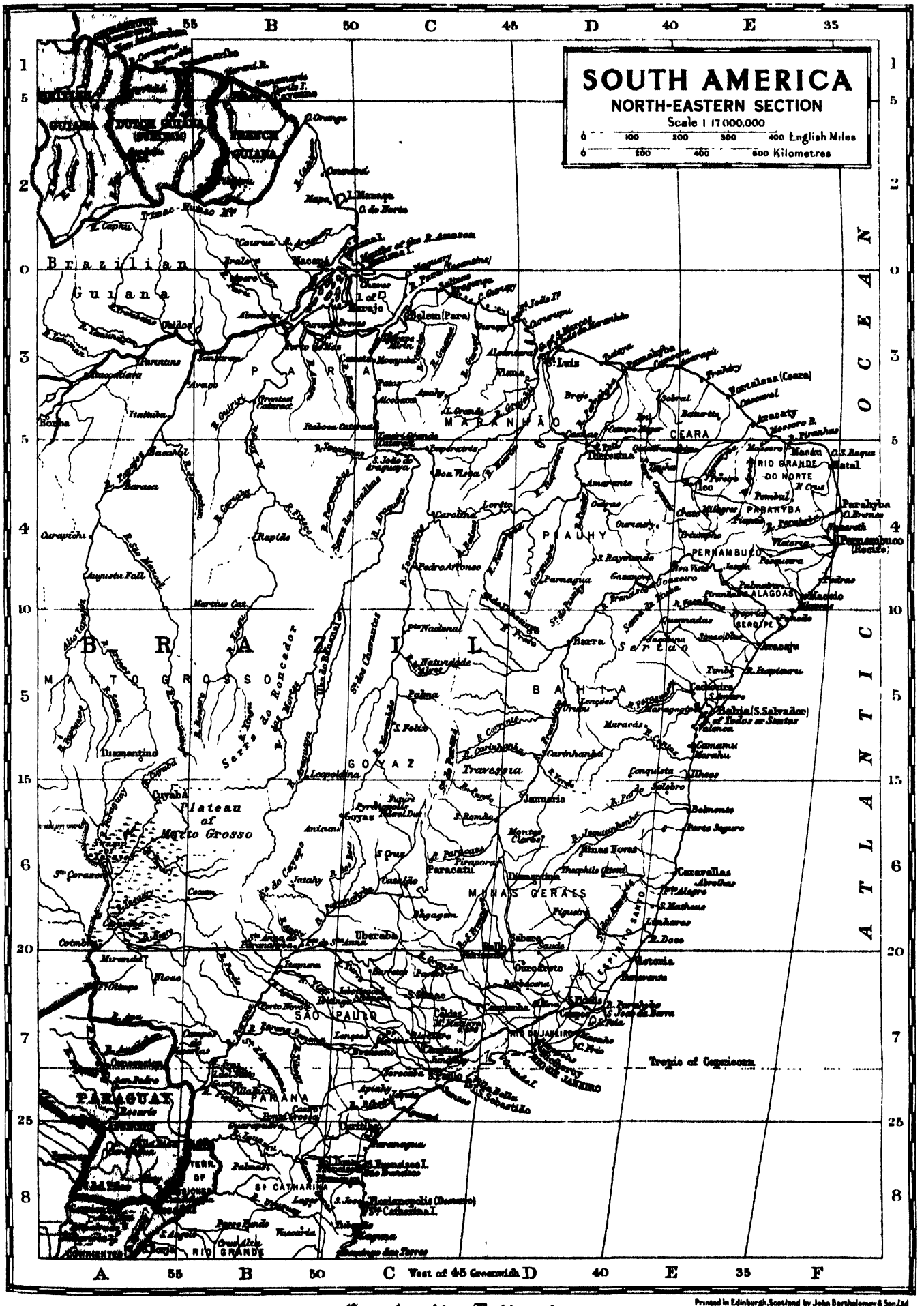


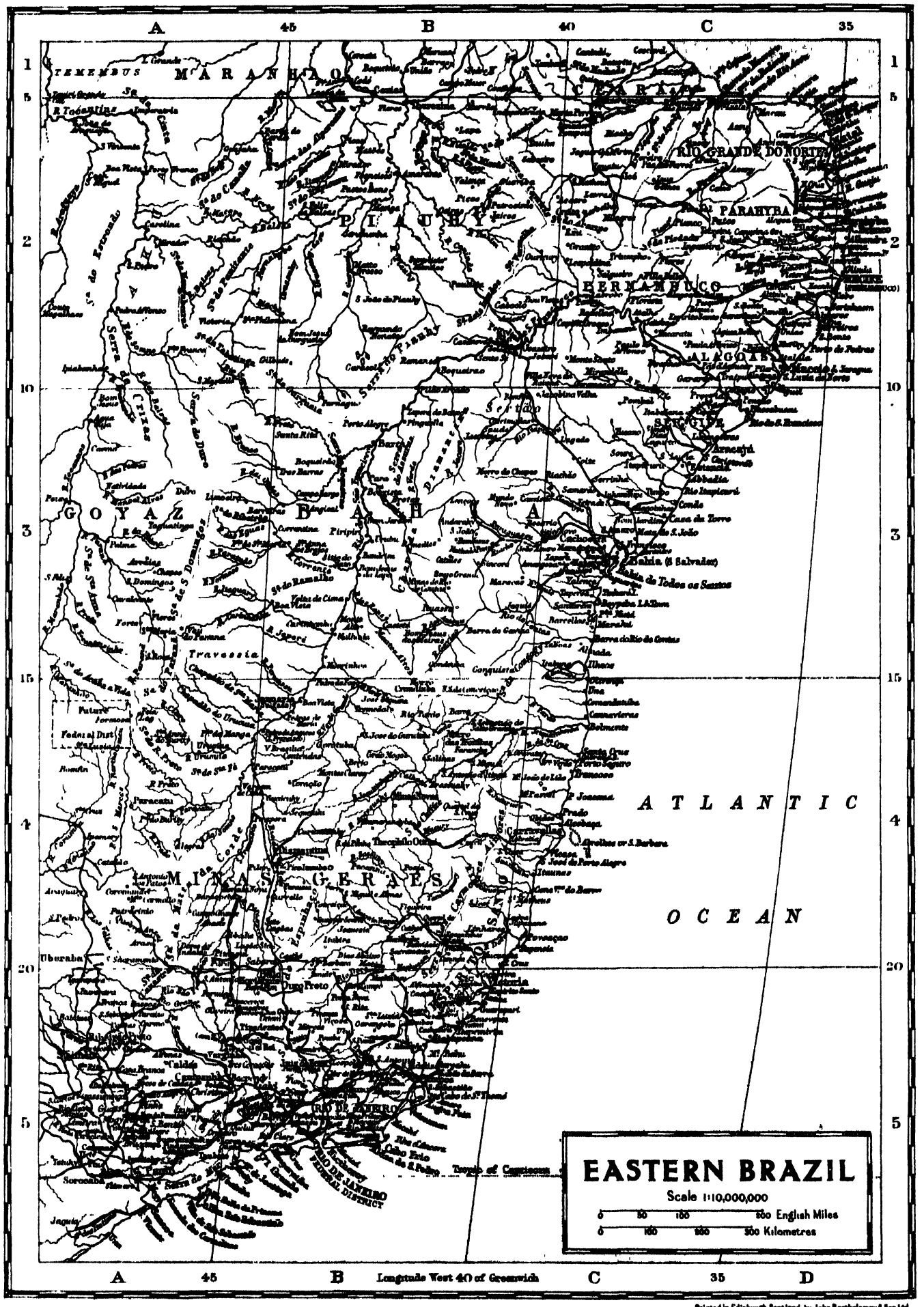
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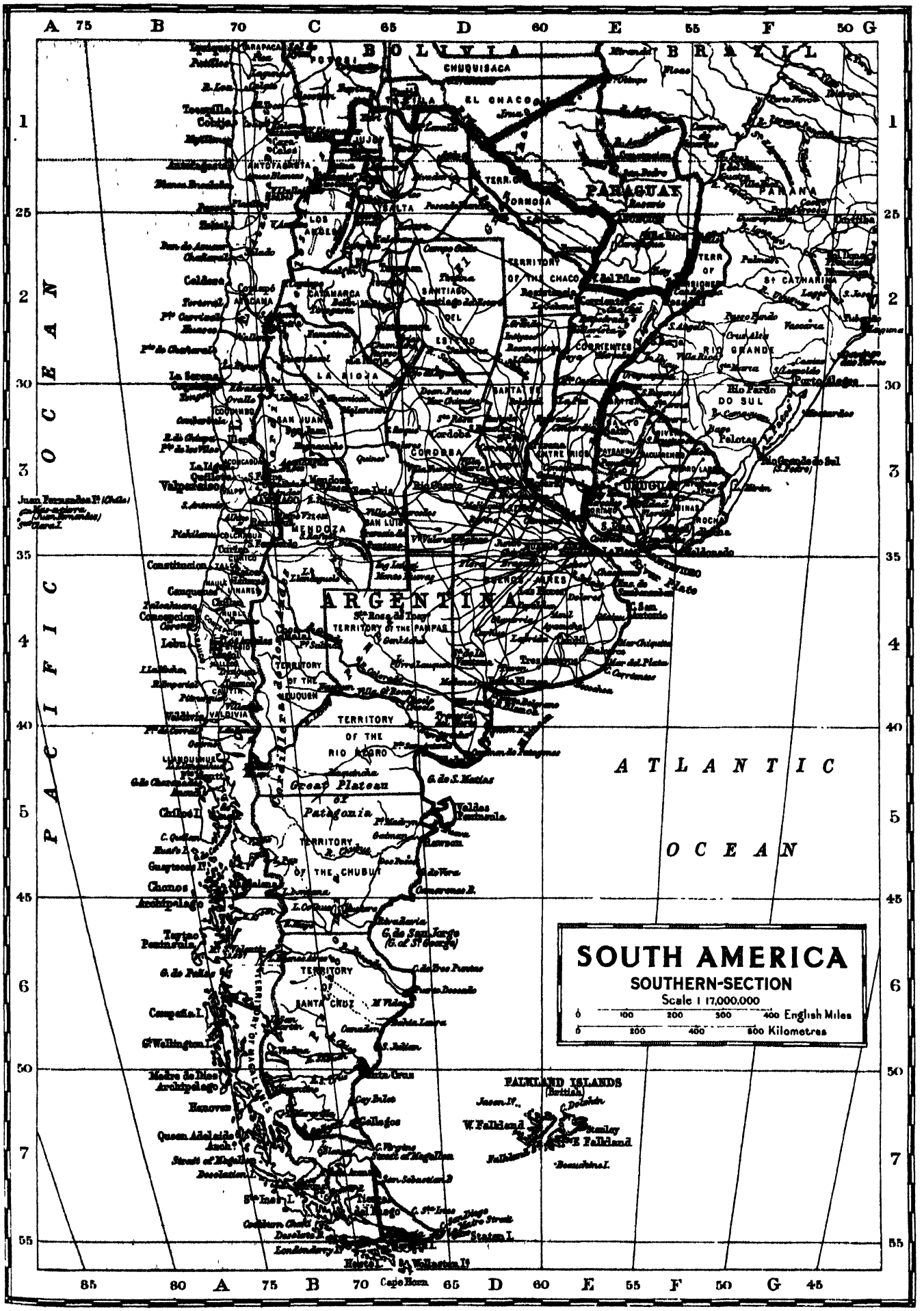


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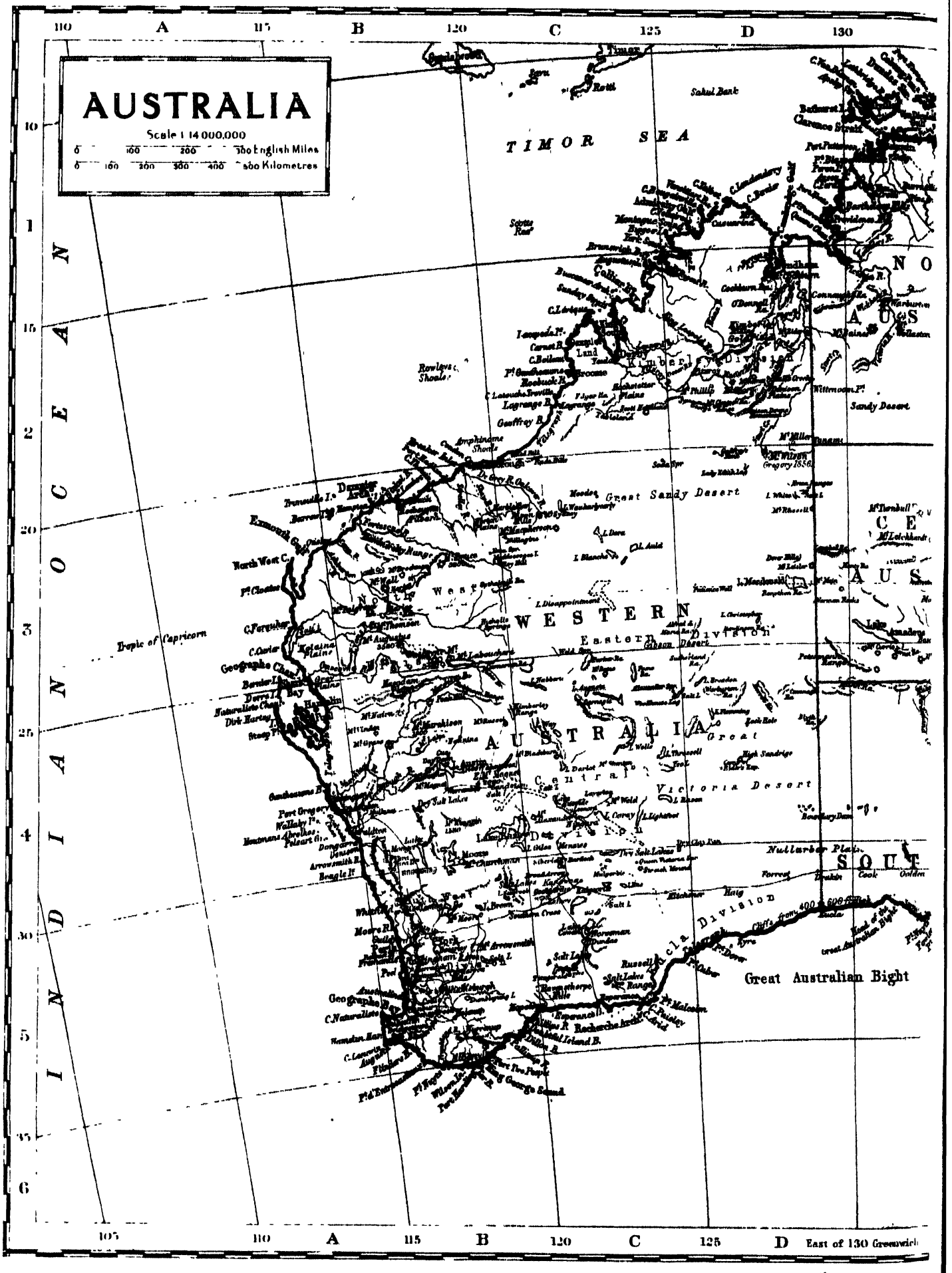

SOUTH AMERICA
NORTH-EASTERN SECTION
Scale 1 17,000,000
0 100 200 300 400 English Miles
0 200 400 600 Kilometres
BRAZIL
ATLANTIC OCEAN
British Guiana
Dutch Guiana (Surinam)
French Guiana
PARA
MARANHÃO
CEARA
RIO GRANDE DO NORTE
PARAHYBA
PERNAMBUCO
ALAGOAS
PIAUHY
SERGIPE
BAHIA
GOYAZ
MATTO GROSSO
MINAS GERAES
SÃO PAULO
PARANA
PARAGUAY
Plateau of Matto Grosso
Serra do Roncador
Tropic of Capricorn
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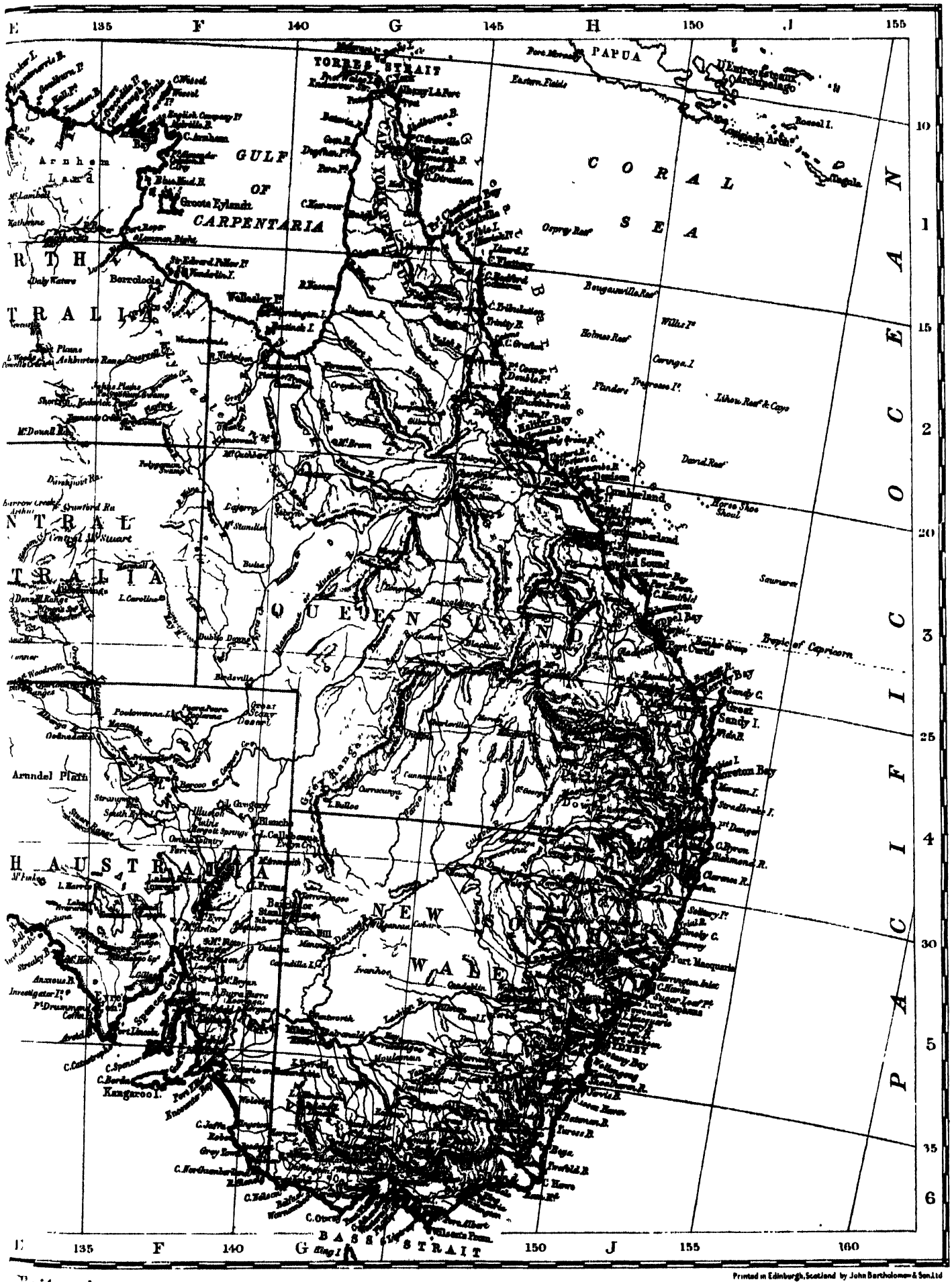


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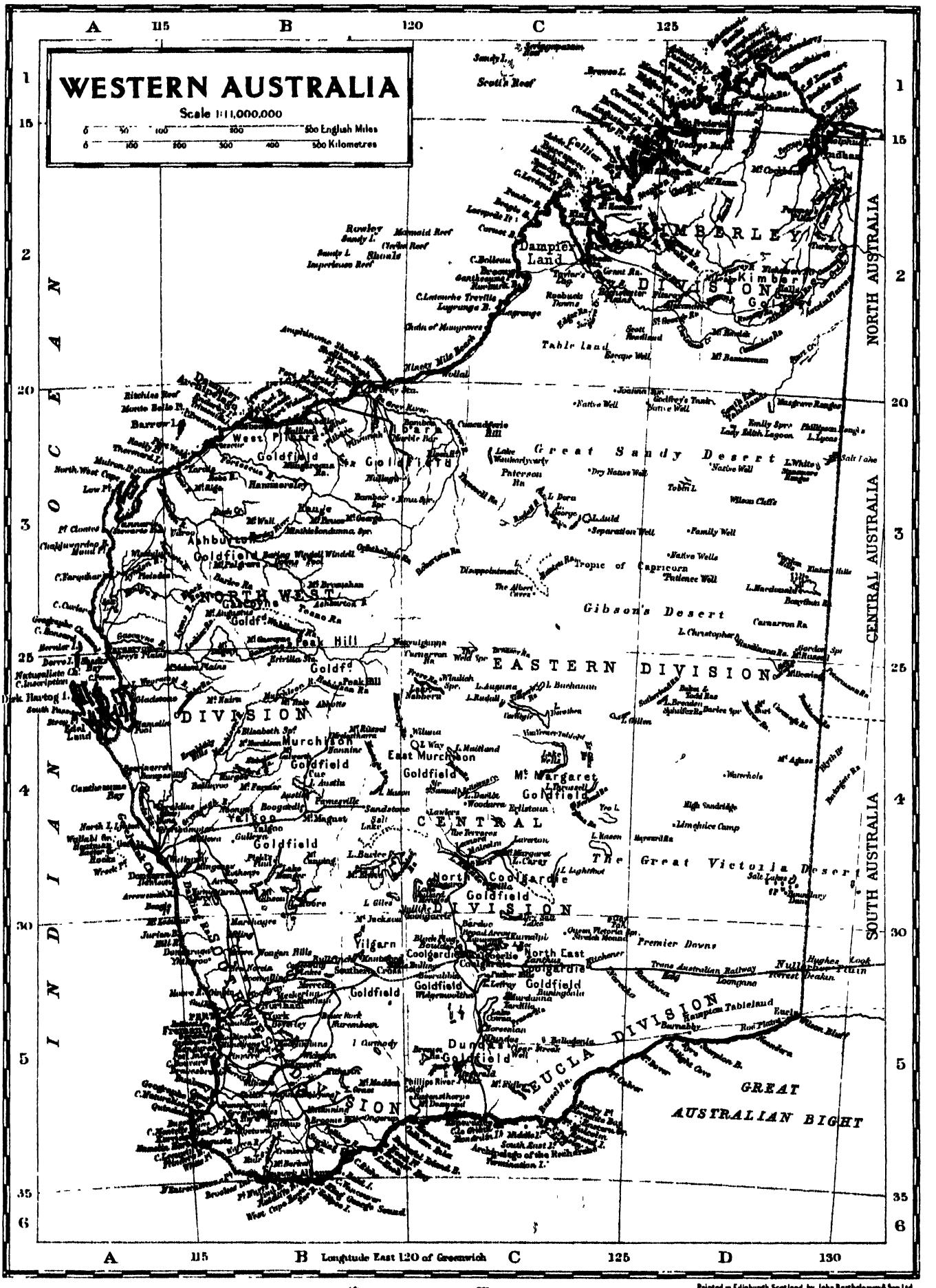


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AUSTRALIA
Scale 1:14,000,000
0 100 200 300 English Miles
0 100 200 300 400 500 Kilometres
TIMOR SEA
INDIAN OCEAN
WESTERN AUSTRALIA
Great Sandy Desert
Great Victoria Desert
Great Australian Bight
Nullarbor Plain
Tropic of Capricorn
Kimberley Division
Eastern Division
Central Division
Timor
Roti
Sahul Bank
Scott Reef
Rowley Shoals
Ashmore Reefs
Cartier I.
Browse I.
Adele I.
Bonaparte Archipelago
Cambridge Gulf
Joseph Bonaparte Gulf
Timor Sea
Arafura Sea
Van Diemen Gulf
Melville I.
Bathurst I.
Clarence Strait
Port Patterson
Darwin
Port Darwin
Fort Dundas
Port Essington
Cobourg Pen.
Coburg Pen.
Croker I.
Wessel Is.
Groote Eylandt
Gulf of Carpentaria
Arnhem Land
Arnhem Bay
Blue Mud Bay
Limmen Bight
Sir Edward Pellew Group
Barrow I.
Bonaparte Archipelago
Buccaneer Archipelago
Dampier Archipelago
Montebello Is.
Barrow I.
Exmouth G.
North West C.
Cape Range
Ningaloo Reef
Shark Bay
Dirk Hartog I.
Geographe Bay
Naturaliste Chan.
Cape Naturaliste
Cape Leeuwin
Flinders Bay
Augusta
Cape Mentelle
Cape Hamelin
Cape Peron
Rottnest I.
Fremantle
Swan R.
Perth
Albany
King George Sound
Two Peoples Bay
Recherche Archipelago
Esperance
Esperance B.
Point Malcolm
Israelite Bay
Eucla
Cape Arid
Cape Pasley
Point Culver
Cape Adieu
Cape Carlisle
Cape Pierre
Cape Le Grand
Cape Riche
Point Ann
Point Dover
Point Isolated
Point Anna
Point Brown
Point Malcolm
Point Culver



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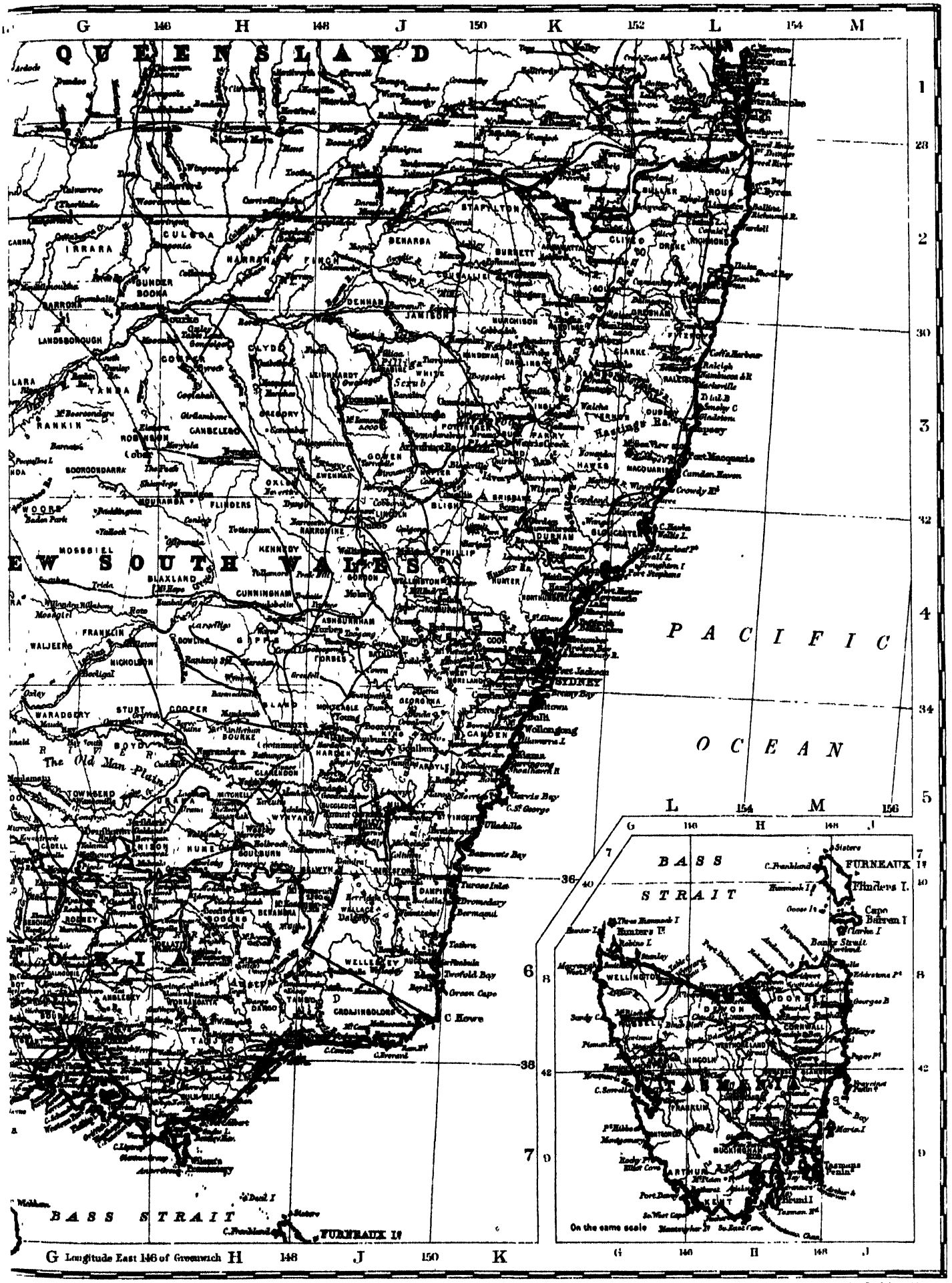
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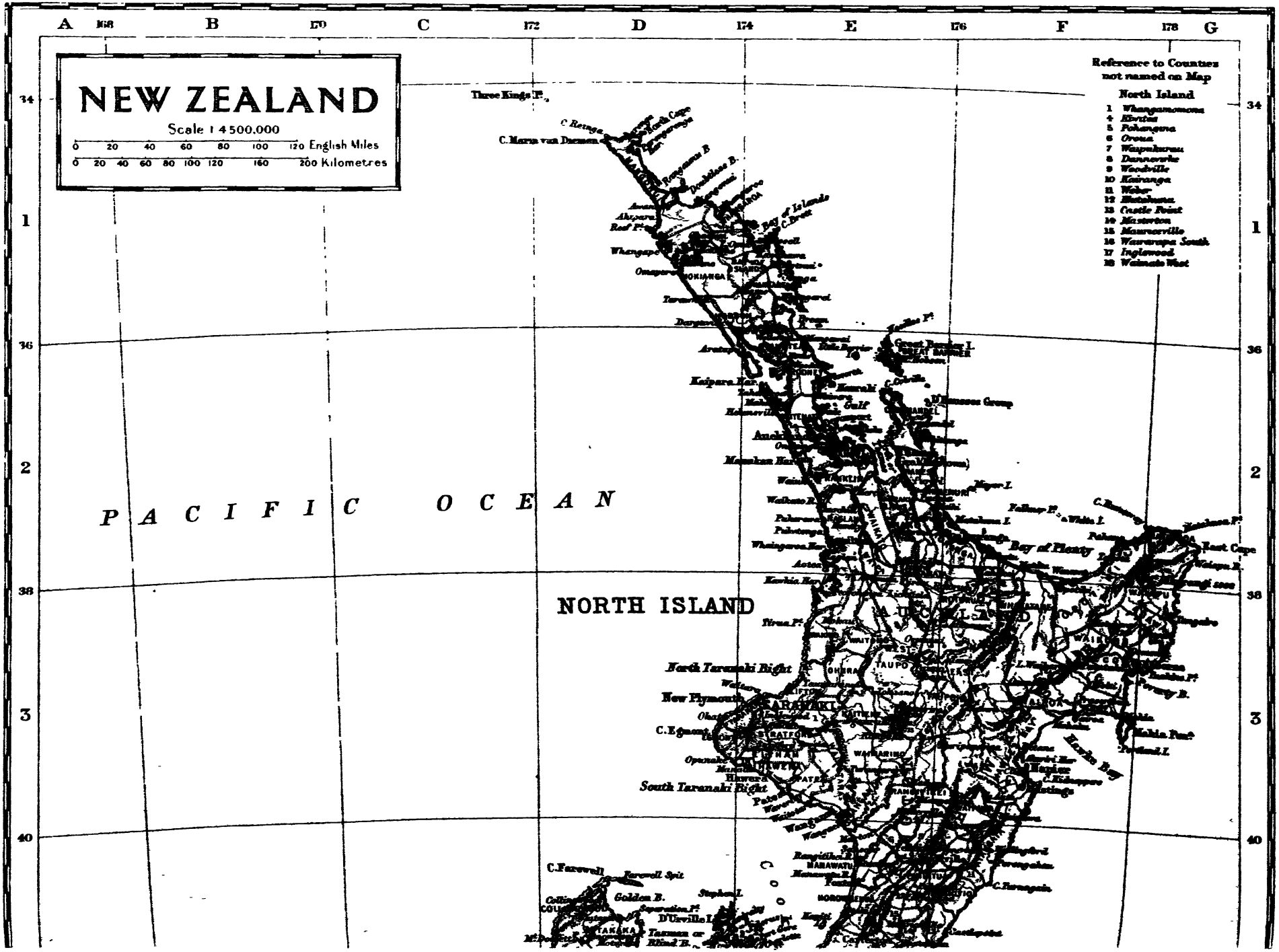
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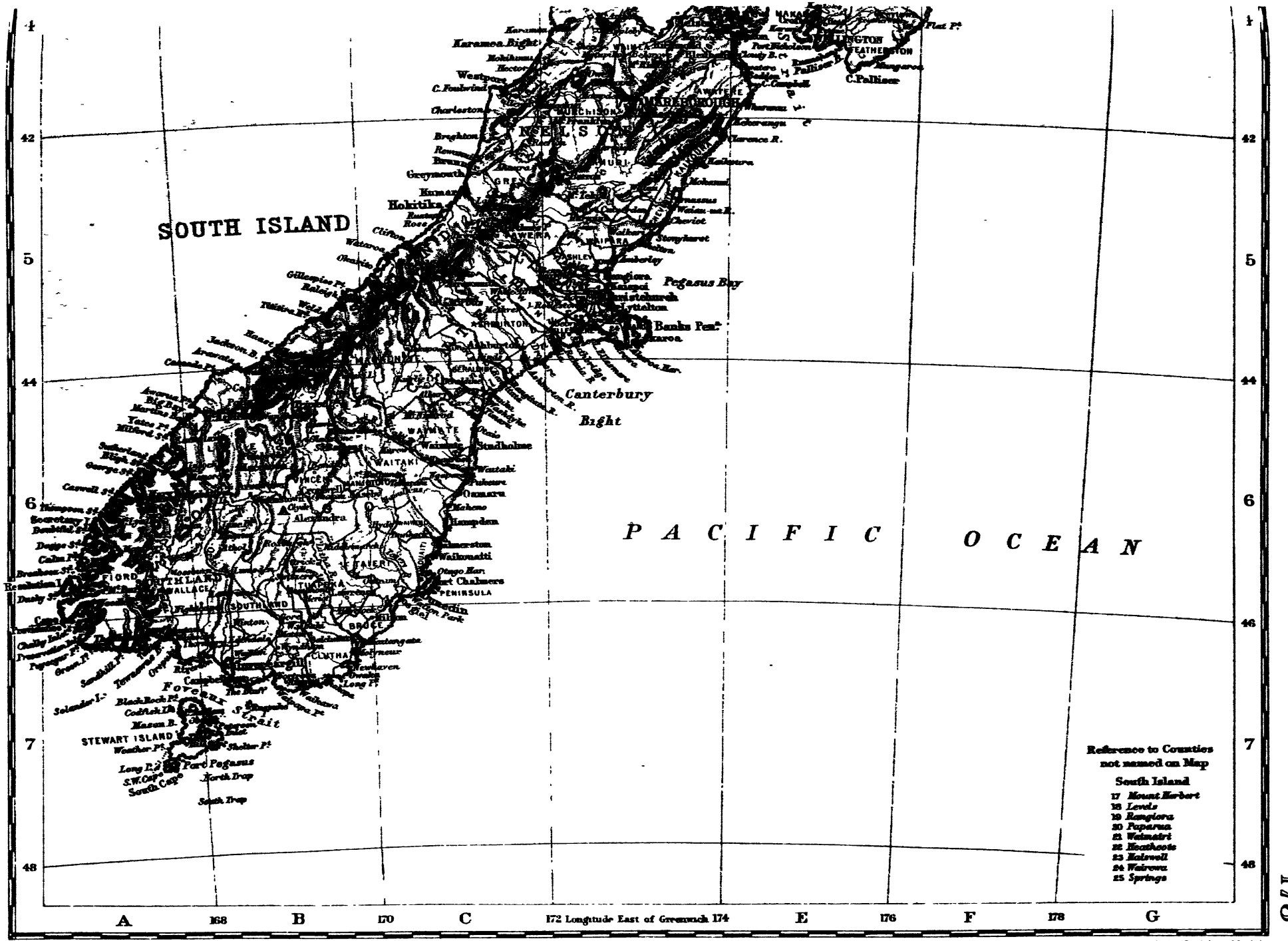


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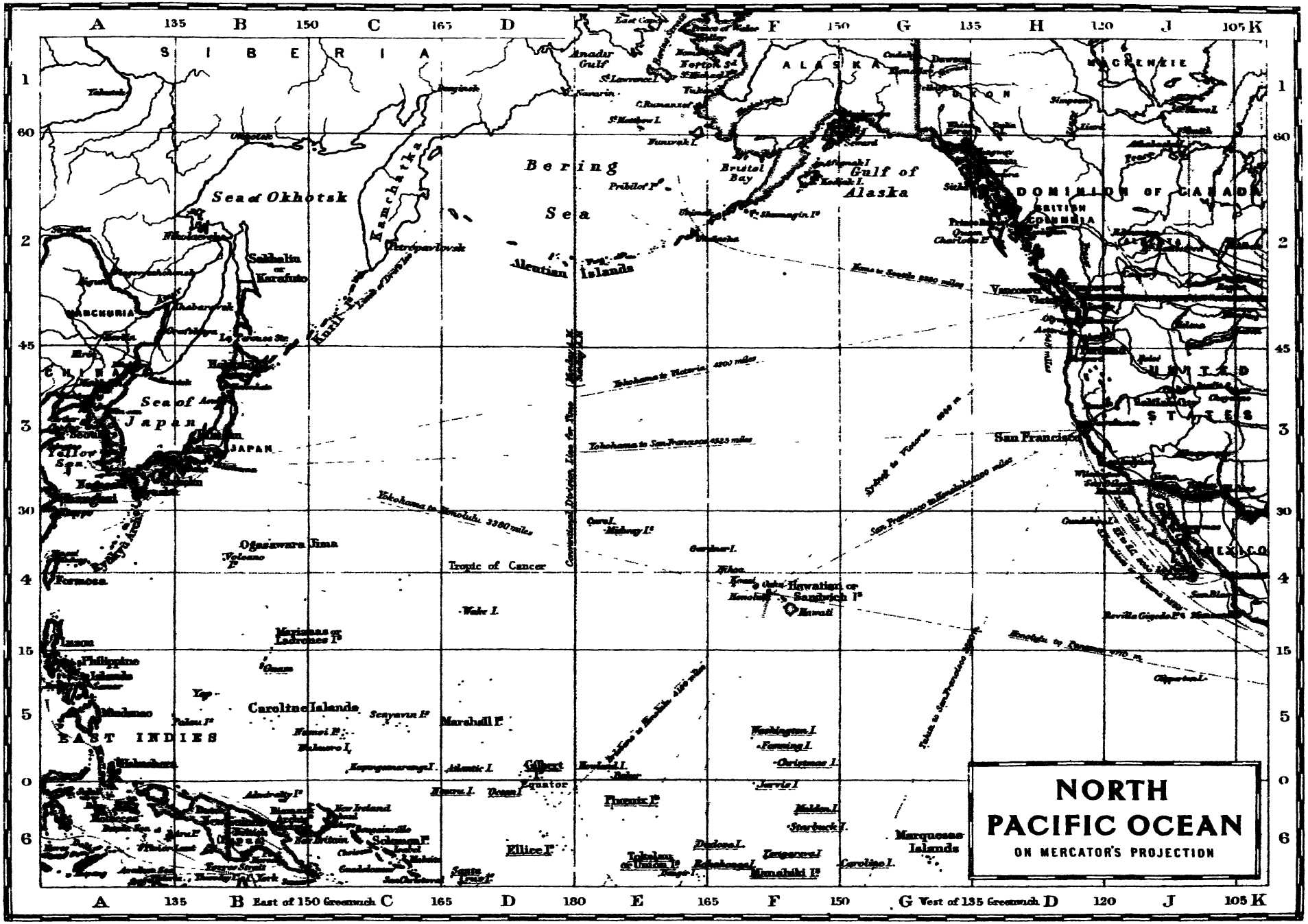

SOUTH AUSTRALIA
GREAT AUSTRALIAN BIGHT
LAKE EYRE (North)
Stuart Range
Warburton Range
Barrier Range
Flinders Ranges
Grey Range
Gawler Ranges
Eyre Peninsula
Spencer Gulf
Gulf St Vincent
Investigator Strait
Lacepede Bay
Port Lincoln
Port Augusta
Whyalla
Port Pirie
Port Adelaide
Adelaide
Murray R.
Darling R.
Broken Hill
Mildura
Swan Hill
Wentworth
Renmark
Loxton
Berri
Waikerie
Murray Bridge
Victor Harbor
Kangaroo I.
Mt Gambier
Naracoorte
Robe
Millicent
Penola
Portland
Warrnambool
Port Fairy
Hamilton
Horsham
Ararat
Ballarat
Geelong
Melbourne
Port Melbourne
Williamstown
Sandringham
Frankston
Dandenong
Mornington
Port Phillip Bay
Western Port
Wilsons Promontory
Sale
Bairnsdale
Orbost
Lakes Entrance
Gippsland Lakes
Mallacoota Inlet
Cape Howe
Eden
Twofold Bay
Cape Everard
Cape Otway
Apollo Bay
Lorne
Queenscliff
Portsea
Cape Schanck
Phillip I.
Wonthaggi
Inverloch
Port Albert
Yarram
Omeo
Mt Kosciusko
Mt Buffalo
Mt Hotham
Mt Bogong
Mt Feathertop
Mt Bulla
Mt Cobbler
Mt Arapiles
Mt Zero
Mt Difficult
Mt Arrowsmith
Mt Shannon
Mt Stirling
Mt Buller
Mt Torbreck
Mt Wills
Mt Howitt
Mt Selwyn
Mt Tennyson
Mt Macedon
Mt Alexander
Mt Cole
Mt Greenock
Mt Abrupt
Mt Napier
Mt Rouse
Mt Eccles
Mt Gambier
Mt Schank
Mt Muirhead
Mt Gipps
Mt Wood
Mt Garnet
Mt Hope
Mt Victoria
Mt Remarkable
Mt Lofty
Mt Barker
Mt Crawford
Mt Pleasant
Mt Torrens
Mt Bryan
Mt Lyndhurst
Mt Serle
Mt Freeling
Mt Hay
Mt Manning
Mt Margaret
Mt Finke
Mt Dare
Mt Willoughby
Mt Chandler
Mt Sir Thomas
Mt Hopeless
Mt Eba
Mt Willson
Mt Gason
Mt Wyatt
Mt Wedge
Mt Brown
Mt Lyell
Mt Hamilton
Mt Gunson
Mt Christie
Mt Sturt
Mt Clarence
Mt Ive
Mt Lindsay
Mt Margaret
Mt Finke
Mt Dare
Mt Willoughby
Mt Chandler
Mt Sir Thomas
Mt Hopeless
Mt Eba
Mt Willson
Mt Gason
Mt Wyatt
Mt Wedge
Mt Brown
Mt Lyell
Mt Hamilton
Mt Gunson
Mt Christie
Mt Sturt
Mt Clarence
Mt Ive
Mt Lindsay
Eyre
Torrens
Frome
Callabonna
Blanche
Gregory
Torrens
Frome
Callabonna
Blanche
Gregory
Eyre


G 146 H 148 J 150 K 152 L 154 M
QUEENSLAND
NEW SOUTH WALES
PACIFIC OCEAN
The Old Man Plain
BASS STRAIT
C. Howe
SYDNEY
Broken Hill
Port Jackson
Botany Bay
Jervis Bay
Twofold Bay
Green Cape
Wilsons Prom.
FURNEAUX Is
Flinders I.
Cape Barren I
Hunters I
Three Hummock I
Stanley
Port Sorell
Port Dalrymple
Launceston
Port Sorell
Macquarie Harbour
Port Davey
Bruny I
D'Entrecasteaux Chan.
On the same scale
Longitude East 146 of Greenwich
Britannica
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NEW ZEALAND
Scale 1 4500.000
0 20 40 60 80 100 120 English Miles
0 20 40 60 80 100 120 160 200 Kilometres
Reference to Counties not named on Map
North Island
1 Whangamomona
4 Hawera
5 Pohangina
6 Oroua
7 Waipukurau
8 Dannevirke
9 Woodville
10 Mairanga
11 Weber
12 Hutchinson
13 Castle Point
14 Masterton
15 Mauriceville
16 Wairarapa South
17 Inglewood
18 Waimate West
PACIFIC OCEAN
NORTH ISLAND
Three Kings I.
North Cape
C. Maria van Diemen
Bay of Islands
Whangaroa
Hokianga
Kaipara Harbour
Gulf
Auckland
Manukau Harbour
Great Barrier I.
Mercury Group
Hauraki
Bay of Plenty
East Cape
White I.
Mayor I.
North Taranaki Bight
South Taranaki Bight
New Plymouth
TARANAKI
TAUPO
WAIKATO
HAWKE'S BAY
Napier
Hastings
Wairarapa
Cape Palliser
Castlepoint
Farewell Spit
C. Farewell
Golden B.
Separation Pt.
D'Urville I.
Stephens I.
Tasman or Blind B.
Cook Strait
Wellington
Foveaux Strait
Stewart I.
Rakiura
Paterson Inlet
Halfmoon Bay
Port Pegasus
Port Adventure
Port Preservation
Dusky Sound
Doubtless B.
Rangaunu B.
Ahipara
Kaitaia
Whangape
Omapere
Awanui
Mangonui
Kaeo
Whangarei
Waitemata
Manukau
Waikato R.
Waipa R.
Mokau R.
Patea
Wanganui
Foxton
Waitara
Opunake
Hawera
Manawatu R.
Rangitikei R.
Wanganui R.
Turakina R.
Waitotara R.
Waimate
Waiau R.
Mohaka R.
Wairoa
Gisborne
Waiapu R.
Hicks Bay
Portland I.
Kawhia Harbour
Aotea Harbour
Whaingaroa Harbour
Raglan
Waitara
Tirua Pt.
Kaipara Harbour
Pakiri
Mahia Pen.
Kawhia Bay
Poverty B.
Table Cape
Cape Kidnappers
Cape Turnagain
Castlepoint
Mangonui
Kaeo
Whangarei
Waitemata
Manukau
Waikato R.
Waipa R.
Mokau R.
Patea
Wanganui
Foxton
Waitara
Opunake
Hawera
Manawatu R.
Rangitikei R.
Wanganui R.
Turakina R.
Waitotara R.
Waimate
Waiau R.
Mohaka R.
Wairoa
Gisborne
Waiapu R.
Hicks Bay
Portland I.
Kawhia Harbour
Aotea Harbour
Whaingaroa Harbour
Raglan
Waitara
Tirua Pt.
Kaipara Harbour
Pakiri
Mahia Pen.
Kawhia Bay
Poverty B.
Table Cape
Cape Kidnappers
Cape Turnagain
Castlepoint

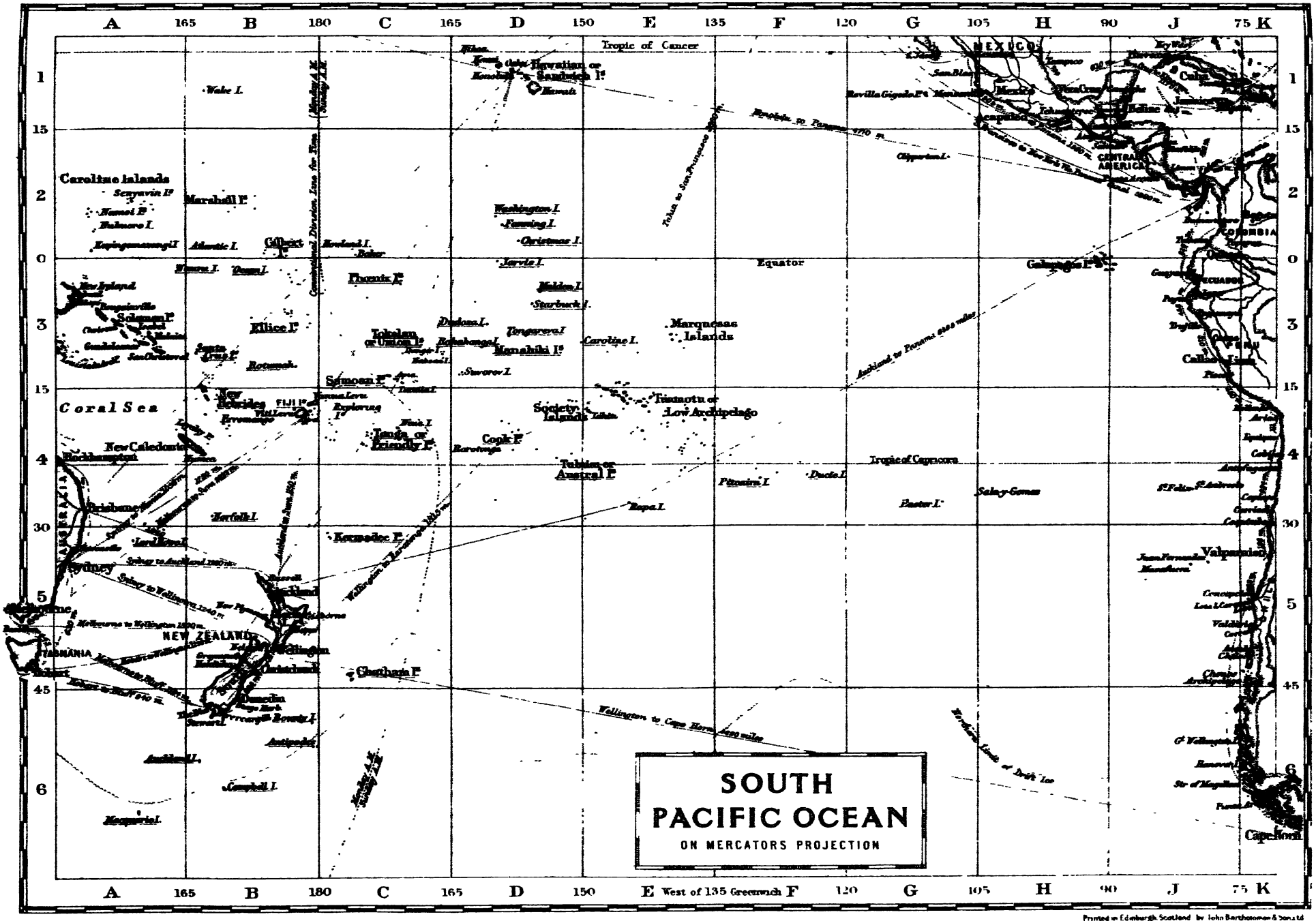


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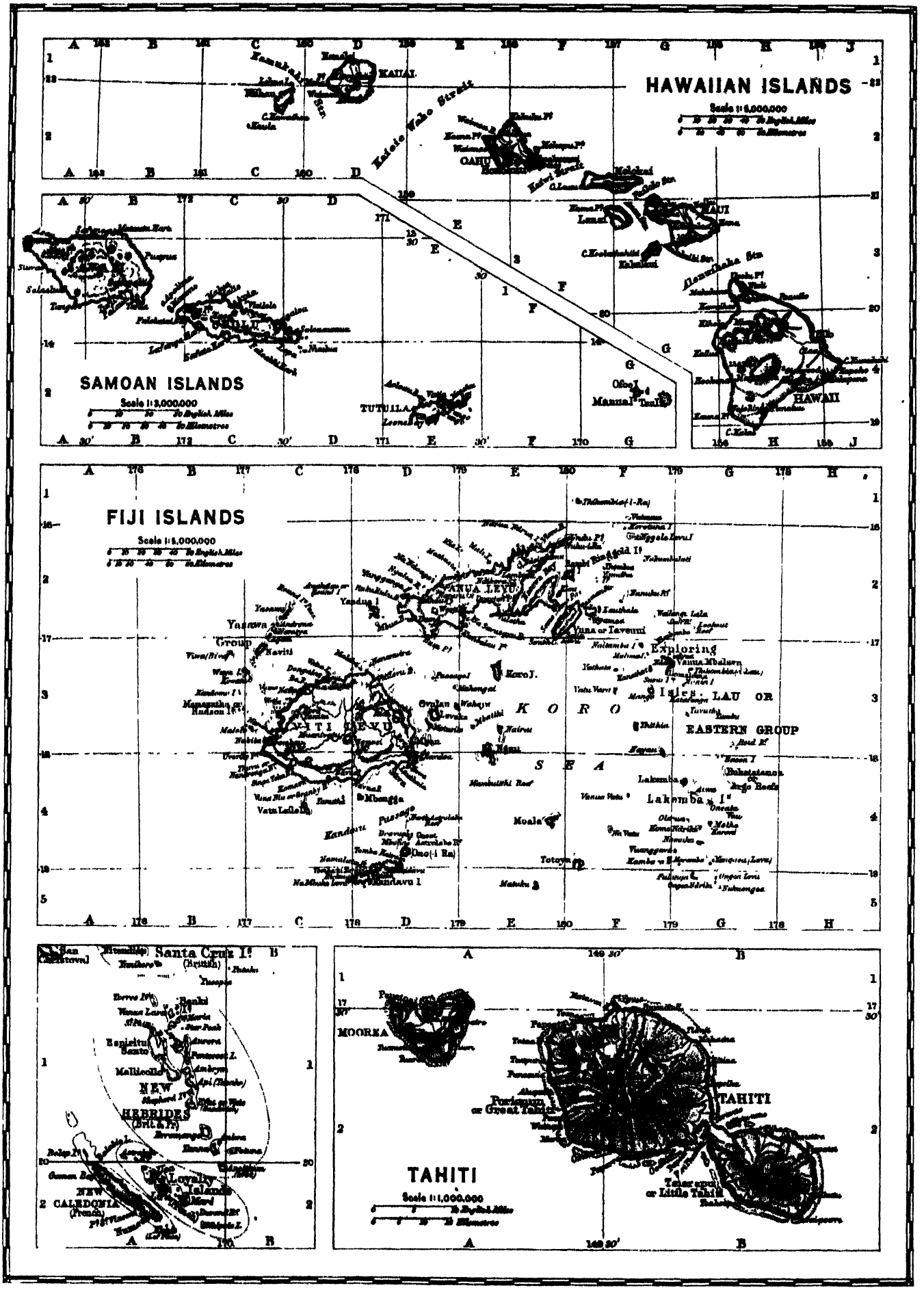
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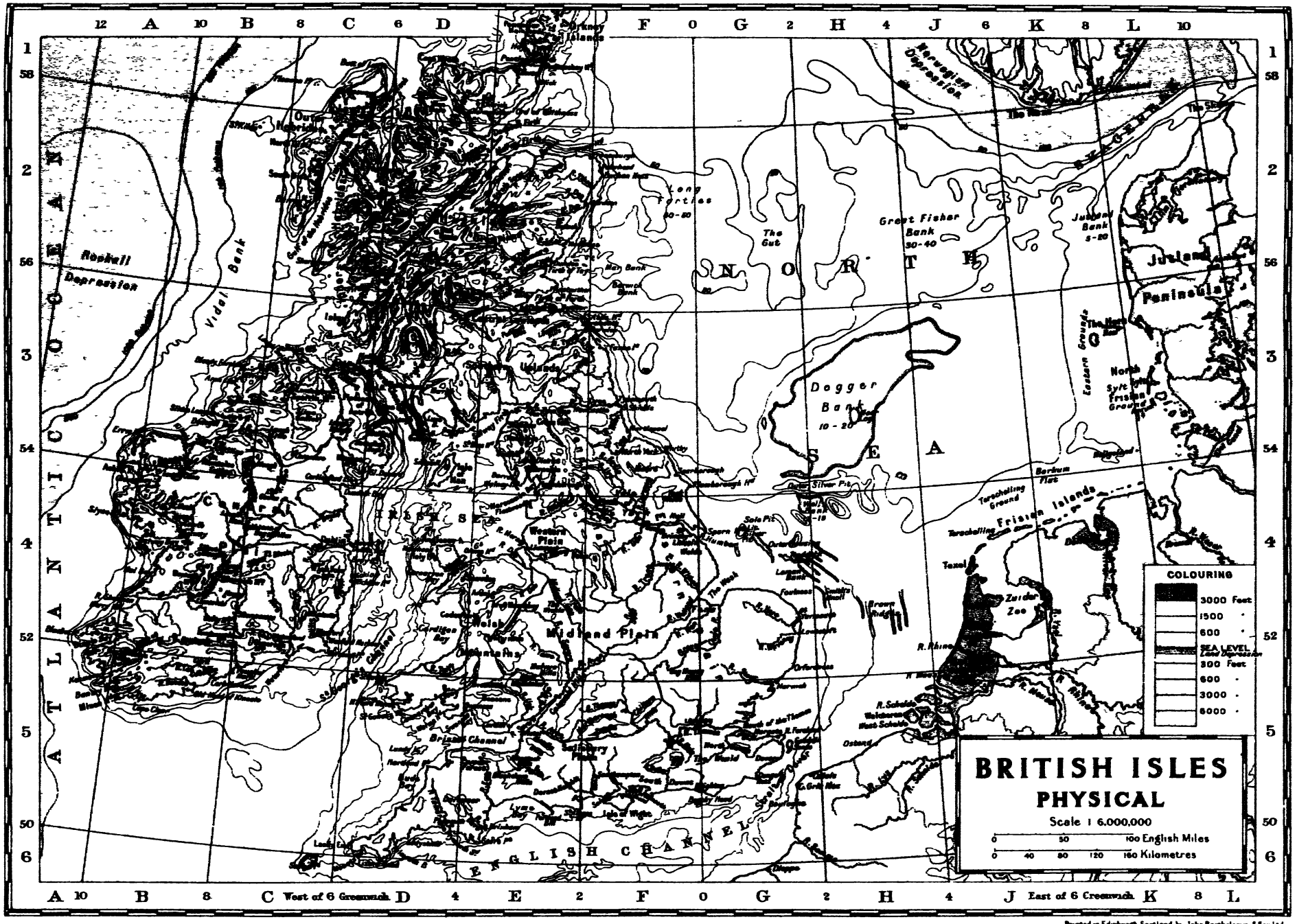


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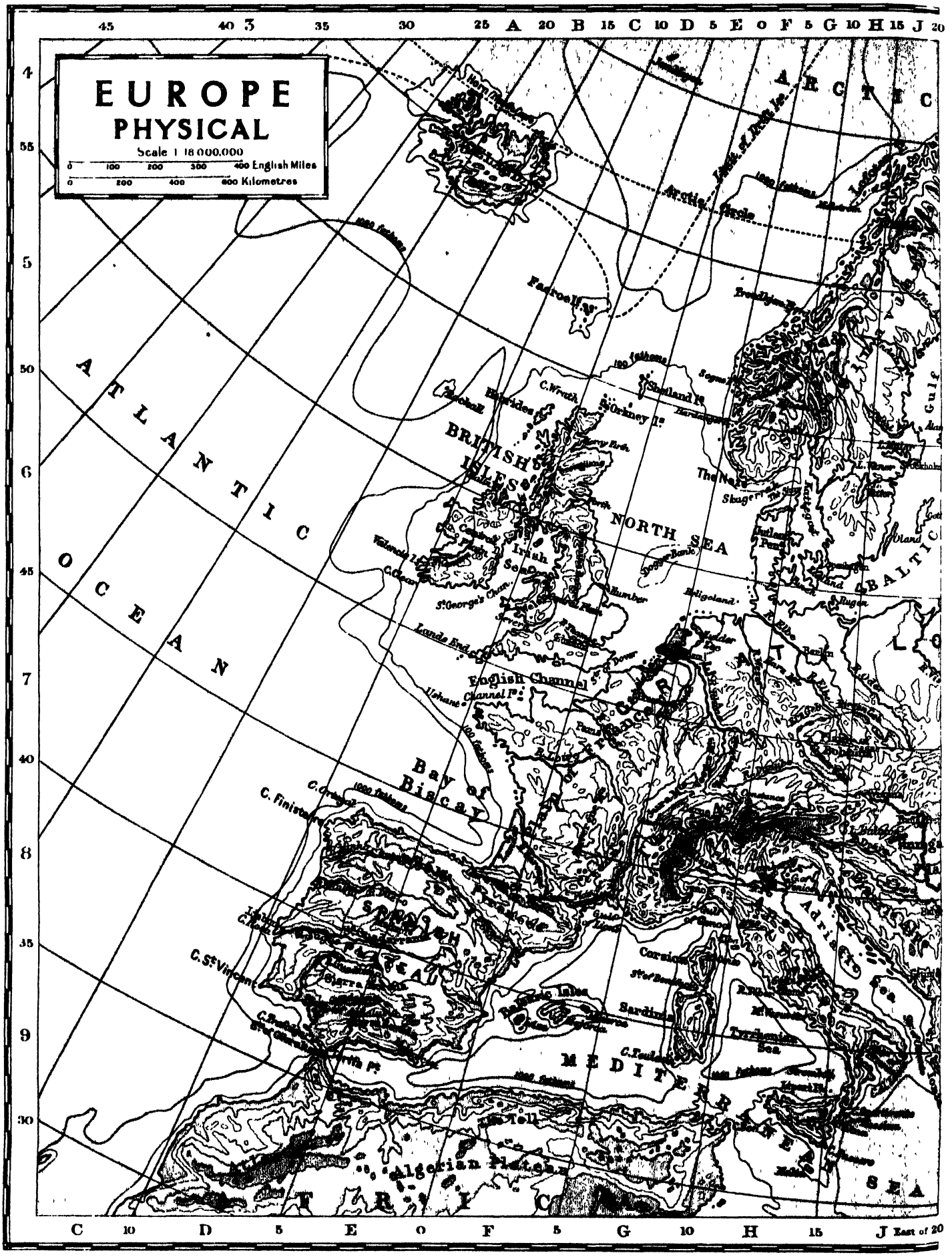


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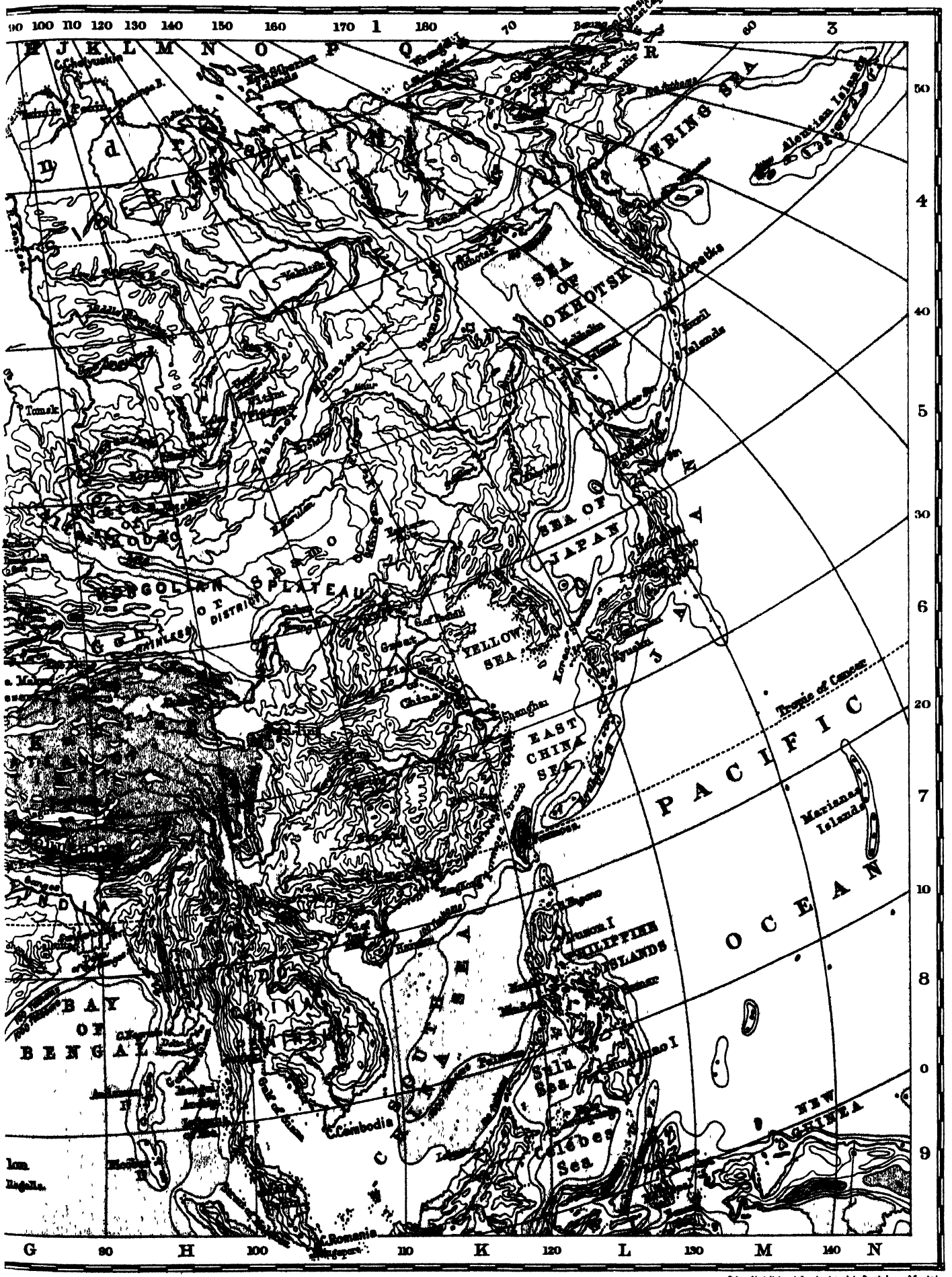

EUROPE
PHYSICAL
Scale 1 18 000.000
0 100 200 300 400 English Miles
0 200 400 600 Kilometres
ATLANTIC OCEAN
NORTH SEA
BALTIC
ARCTIC
BRITISH ISLES
English Channel
Bay of Biscay
MEDITERRANEAN SEA
Algerian Plateau
Faeroe Is.
Shetland Is.
Orkney Is.
Hebrides
Iceland
Jan Mayen I.
Arctic Circle
Sardinia
Corsica
Balearic Isles
Adriatic Sea
Tyrrhenian Sea
Ligurian Sea
Gulf of Lyons
Gulf of Bothnia
Gulf of Finland
Skagerrak
Kattegat
Jutland Pen.
Heligoland
Dogger Bank
Irish Sea
St George's Chan.
Channel Is.
Lands End
C. Finisterre
C. St Vincent
Gibraltar
Malta
Sicily
Crete
Cyprus
Rhodes
Black Sea
Caspian Sea
Aral Sea
Lake Baikal
Lake Onega
Lake Ladoga
Lake Peipus
Lake Vanern
Lake Wetter
Lake Vener
Lake Constance
Lake Geneva
Lake Como
Lake Garda
Lake Maggiore
Lake Trasimene
Lake Bolsena
Lake Balaton
Lake Neusiedler
Lake Ochrida
Lake Scutari
Lake Prespa
Lake Janina
Lake Copais
Lake Kopais
Lake Kerkini
Lake Tachino
Lake Ostrovo
Lake Kastoria
Lake Van
Lake Urmia
Lake Sevan
Lake Ilmen
Lake Chudskoe
Lake Peipus
Lake Onega
Lake Ladoga



Britannica

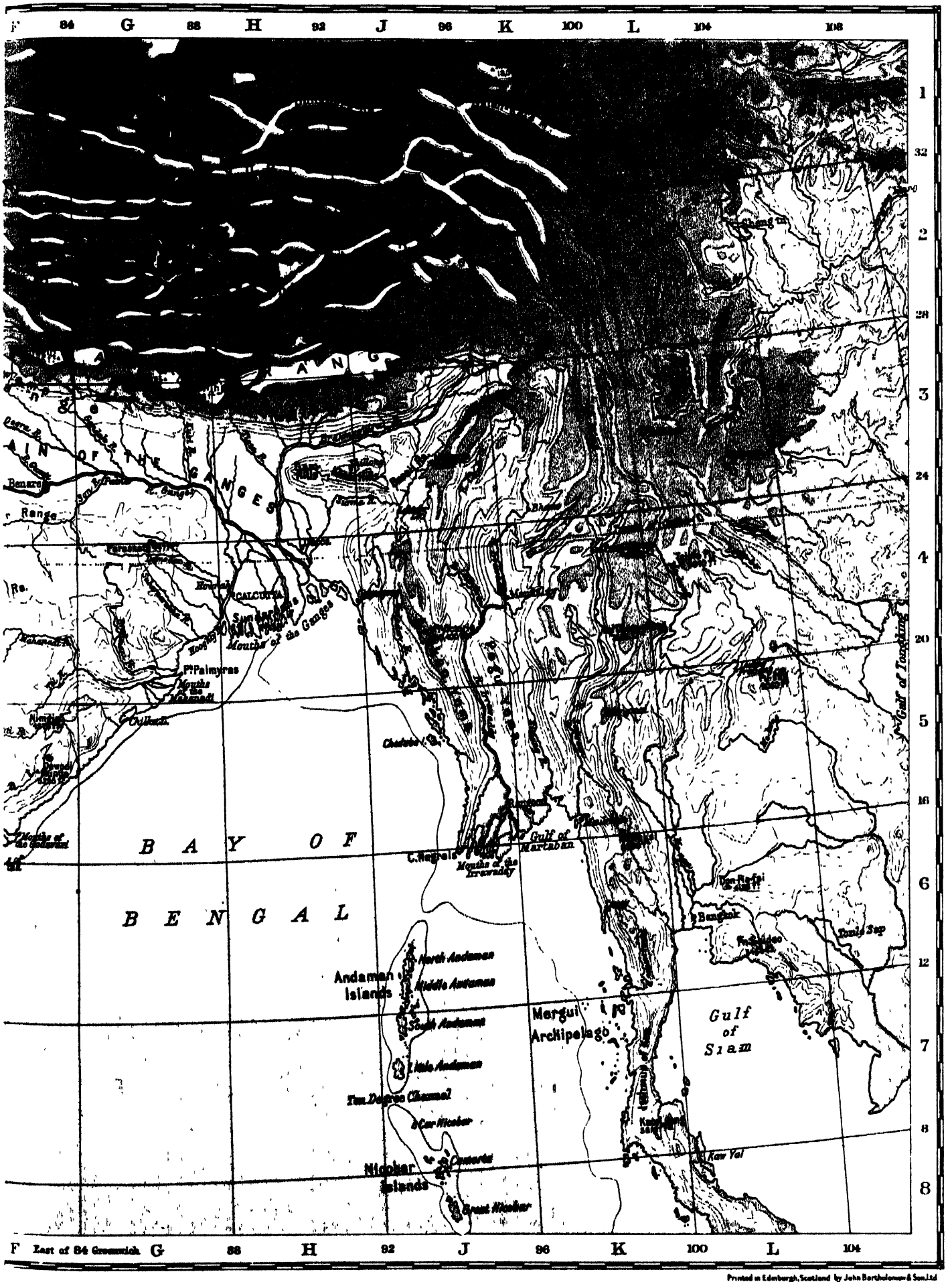
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ASIA
PHYSICAL
Scale 1 36 000,000
0 200 400 600 English Miles
0 500 1000 Kilometres
COLOURING
18000 Feet
12000 "
6000 "
3000 "
1500 "
600 "
SEA LEVEL
Land Depression
600 Feet
ARCTIC OCEAN
NORTH SEA
BALTIC SEA
MEDITERRANEAN SEA
BLACK SEA
CASPIAN SEA
ARABIA
Nejd
TABLE LAND
Persian Gulf
Gulf of Oman
ARABIAN SEA
PLATEAU OF THE DECCAN
PLAINS OF
Bombay
Laccadive Islands
Maldive Islands
Longitude East 70 of Greenwich

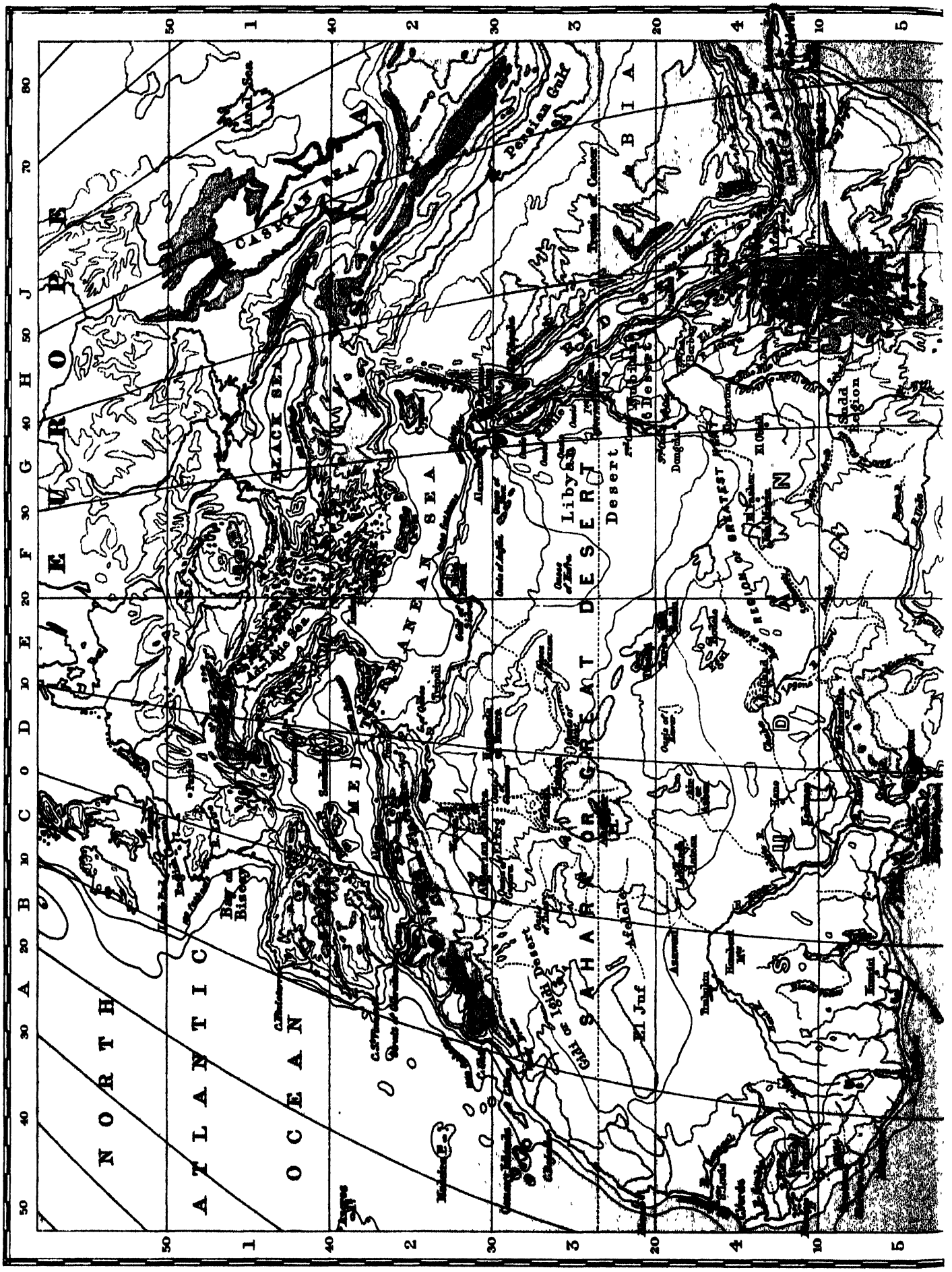


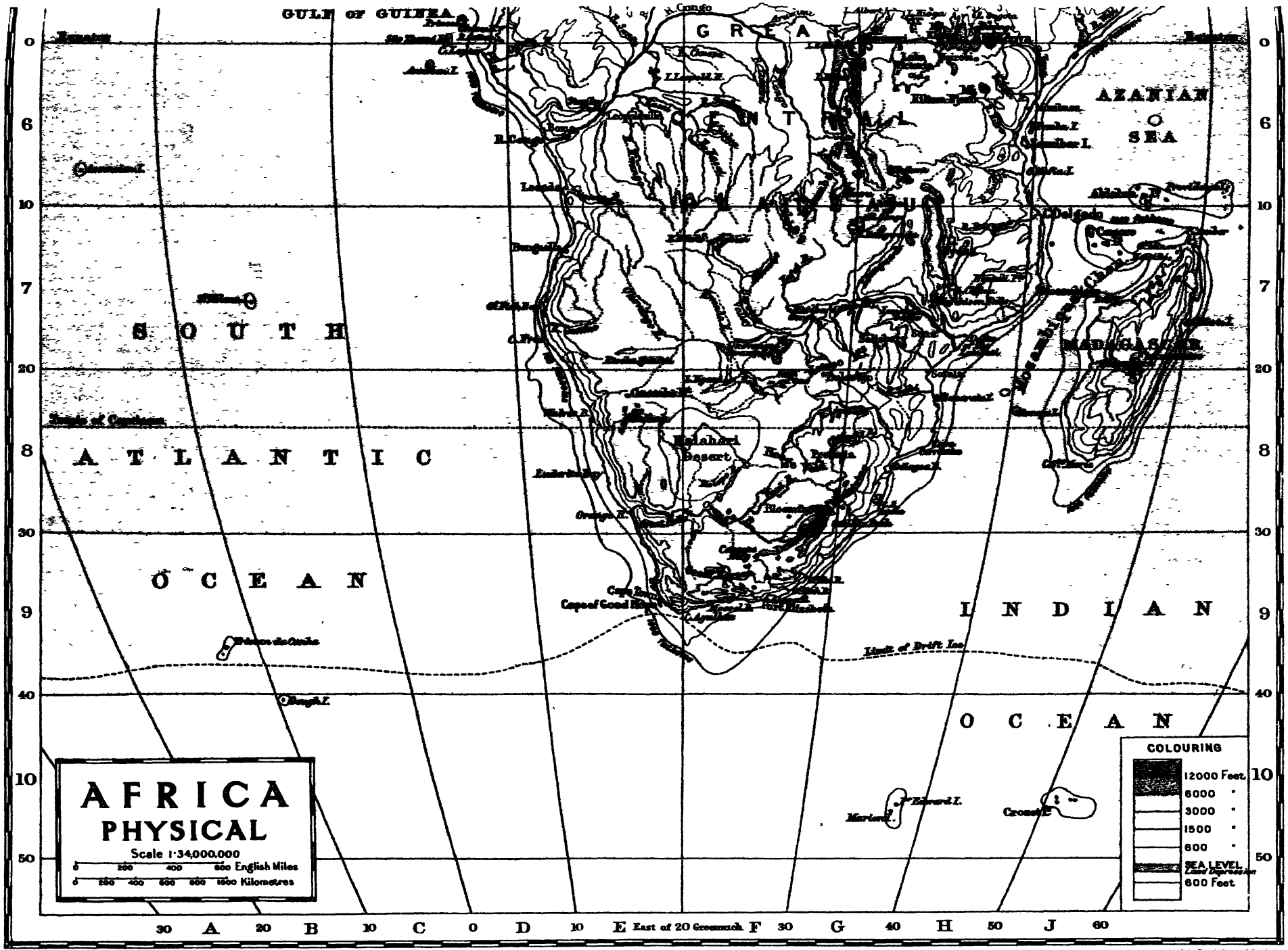
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INDIA
PHYSICAL
Scale 1 14,000,000
0 100 200 300 Miles
0 100 200 300 400 500 Kilometres
COLOURING
18000 Feet
12000 "
6000 "
3000
1500 "
1000 "
600 "
SEA LEVEL
600 Feet
ARABIAN SEA
PLAIN OF THE INDUS
THAR OR INDIAN DESERT
Malwa Plateau
Vindhya Range
Satpura Range
Aravalli Range
Western Ghats
Eastern Ghats
Coromandel Coast
Malabar Coast
Gulf of Oman
Gulf of Cutch
Gulf of Mannar
Palk Str.
Laccadive Is.
Minikoi
Karachi
Hyderabad
Bombay
Delhi
Jaipur
Agra
Ahmadabad
Bangalore
Madras
Cape Comorin
Colombo
CEYLON
Ras al Junaiz
Mouths of the Indus
Tropic of Cancer
Equator
Helmand Desert
Dasht-i-Lut
Sukkur
Jodhpur
Ajmer
Bikaner
Bhopal
Nagpur
Mangalore
Calicut
Trichinopoly
Madura
Tuticorin
Diu I.
Mandvi
Rathiawar Pen.
Cutch Peninsula
Chandor
Ajanta
Satpura Range
Nilgiri Hills
Cardamom Hills
Palghat Gap
Godavari R.
Krishna R.
Mahanadi R.
Narbada R.
Tapti R.
Mahi R.
Sabarmati R.
Luni R.
Indus R.
Sutlej R.
Jumna R.
Ganges R.
Chambal R.
Betwa R.
Son R.
Damodar R.
Kosi R.
Brahmaputra R.
Irrawaddy R.
Kaveri R.
Vaigai R.
Periyar R.
Pamban
Adam's Bridge
Kalimere
Donald's Head

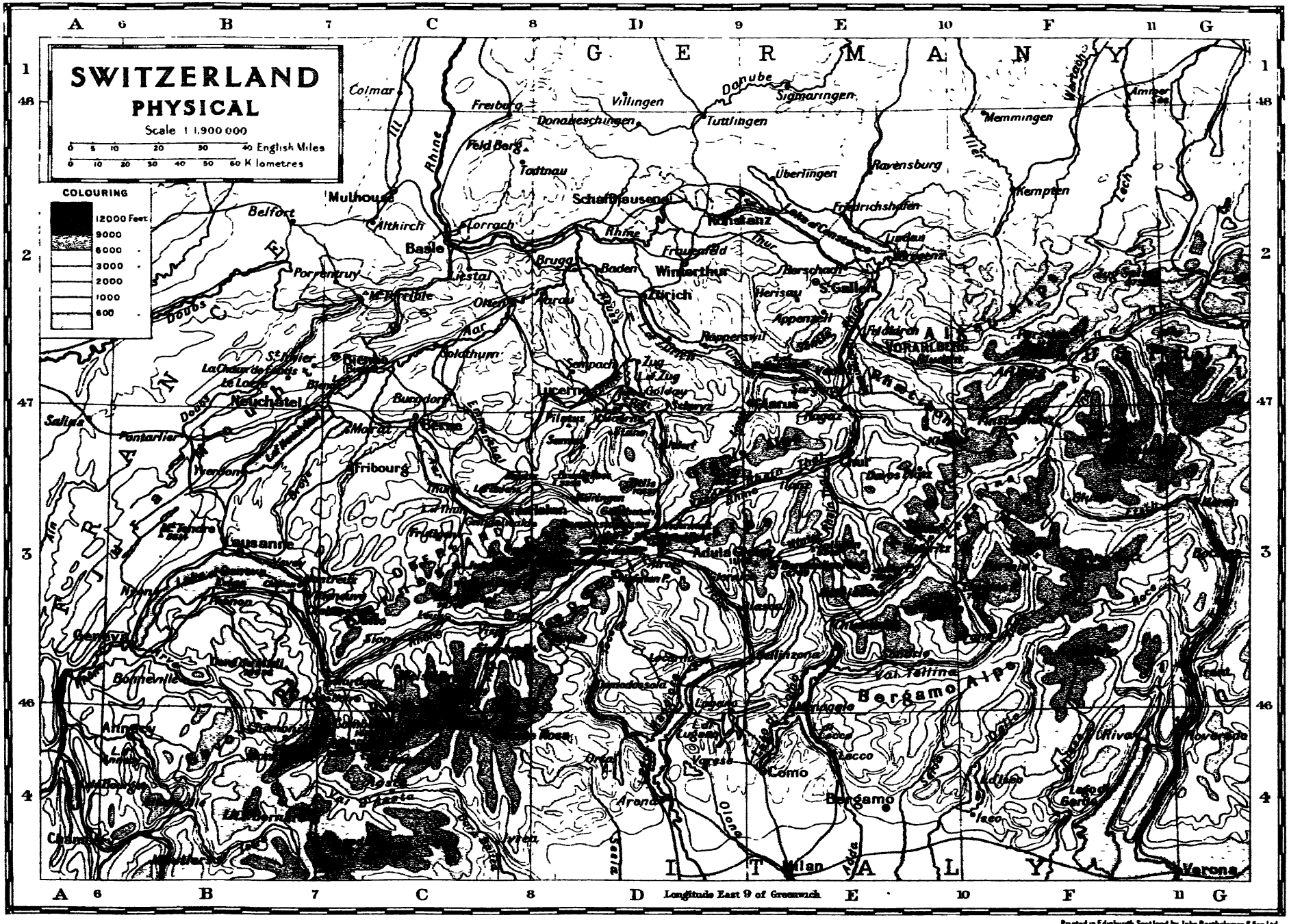


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EUROPE
ASIA
NORTH ATLANTIC OCEAN
MEDITERRANEAN SEA
BLACK SEA
CASPIAN SEA
Persian Gulf
Red Sea
Libyan Desert
GREAT SAHARA DESERT
ARABIA
Bay of Biscay
Gulf of Sidra
El Juf
Aden
Mecca
Medina
Baghdad
Damascus
Jerusalem
Cairo
Alexandria
Tripoli
Algiers
Tunis
Fez
Gibraltar
Canary Islands
Madeira
Azores
Cape Verde Islands
Ascension
Socotra
Zanzibar
Mombasa
Kilimanjaro
Lake Victoria
Lake Tchad
Khartoum
Abyssinia
Somaliland
Sahara
Nubian Desert
Arabian Desert
Libyan Desert
Great Sahara Desert
Mediterranean Sea
Black Sea
Caspian Sea
Persian Gulf
Red Sea
Bay of Biscay
Gulf of Sidra
El Juf
Aden
Mecca
Medina
Baghdad
Damascus
Jerusalem
Cairo
Alexandria
Tripoli
Algiers
Tunis
Fez
Gibraltar
Canary Islands
Madeira
Azores
Cape Verde Islands
Ascension
Socotra
Zanzibar
Mombasa
Kilimanjaro
Lake Victoria
Lake Tchad
Khartoum
Abyssinia
Somaliland
Sahara
Nubian Desert
Arabian Desert
Libyan Desert
Great Sahara Desert

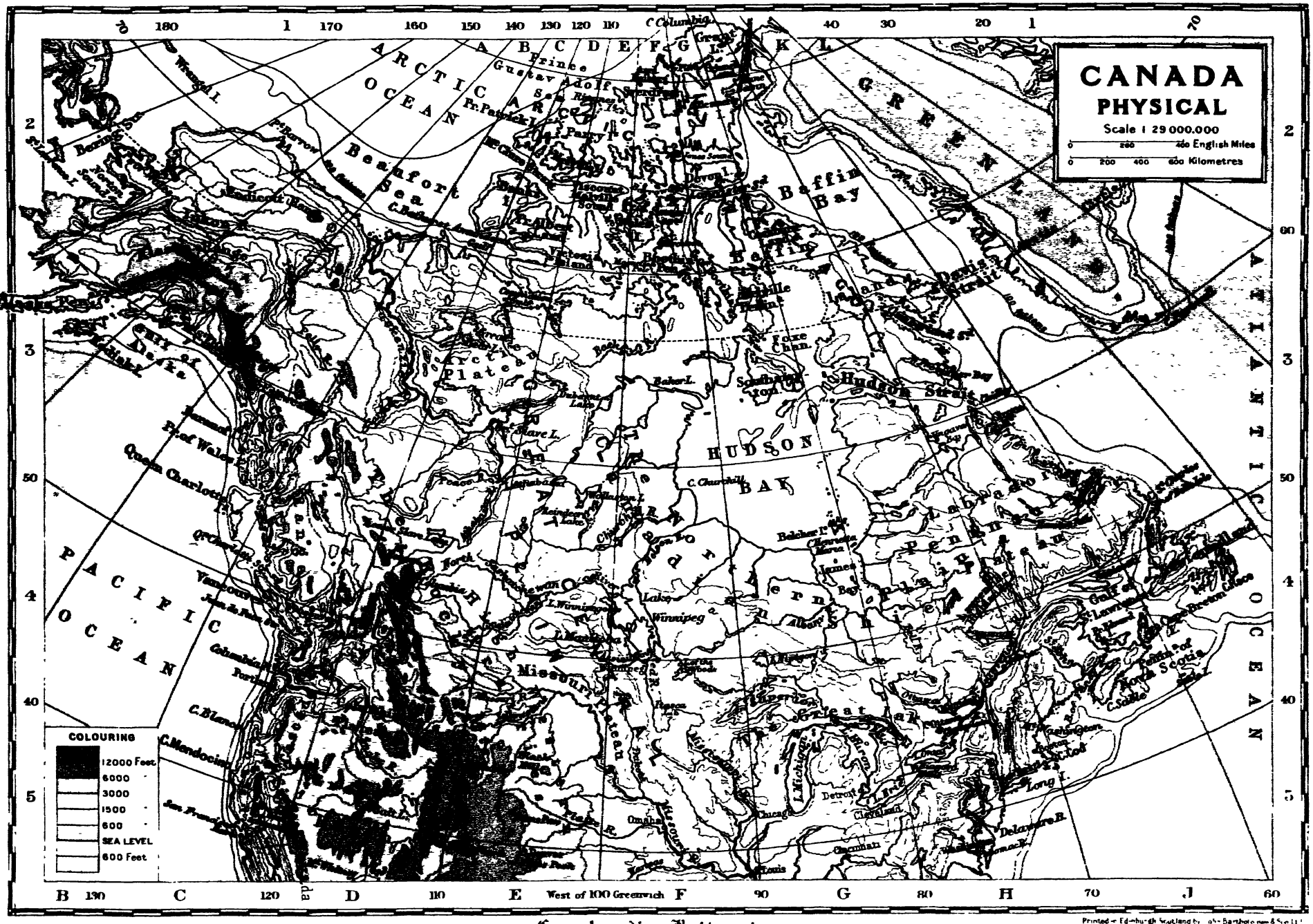


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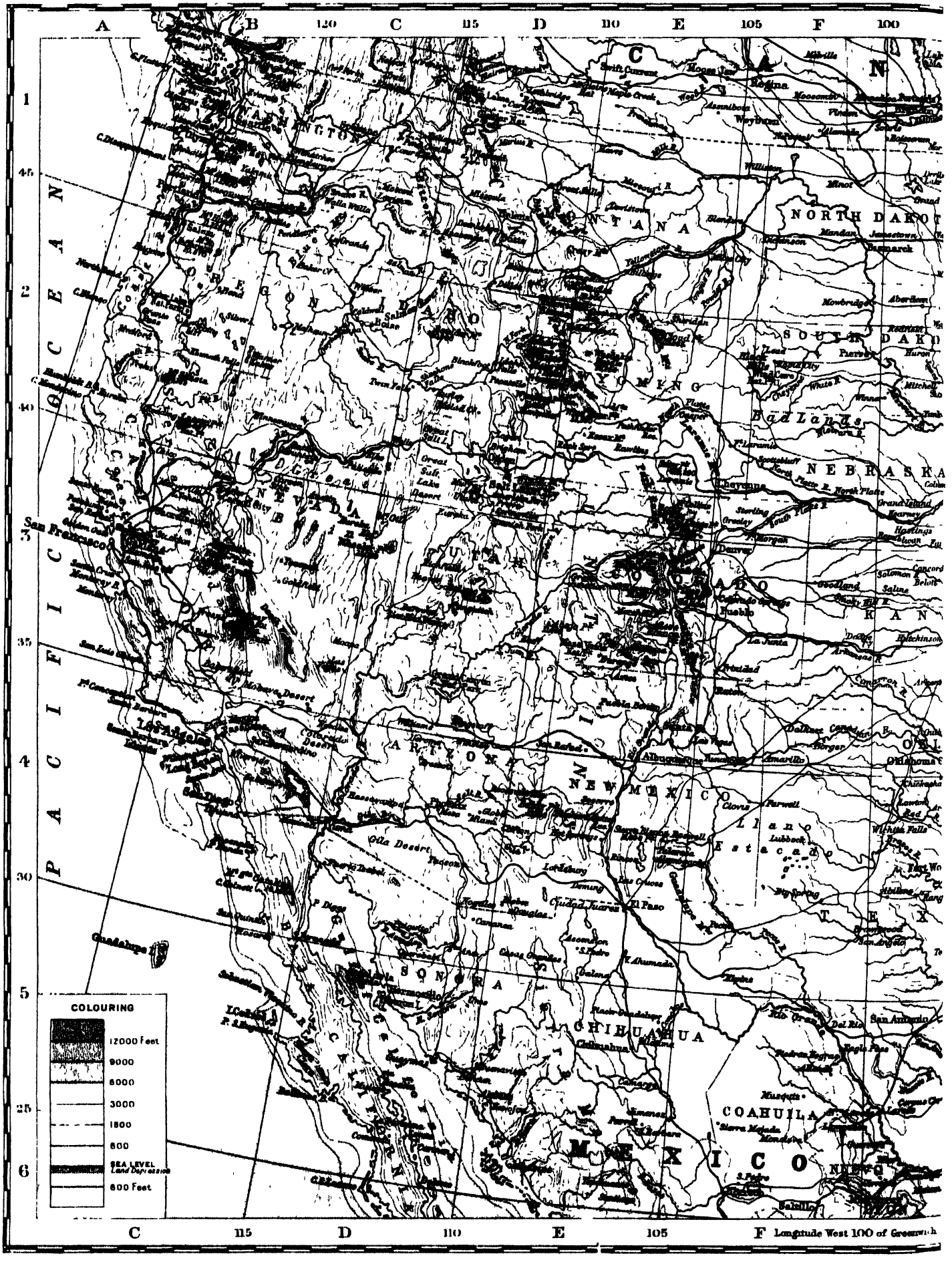
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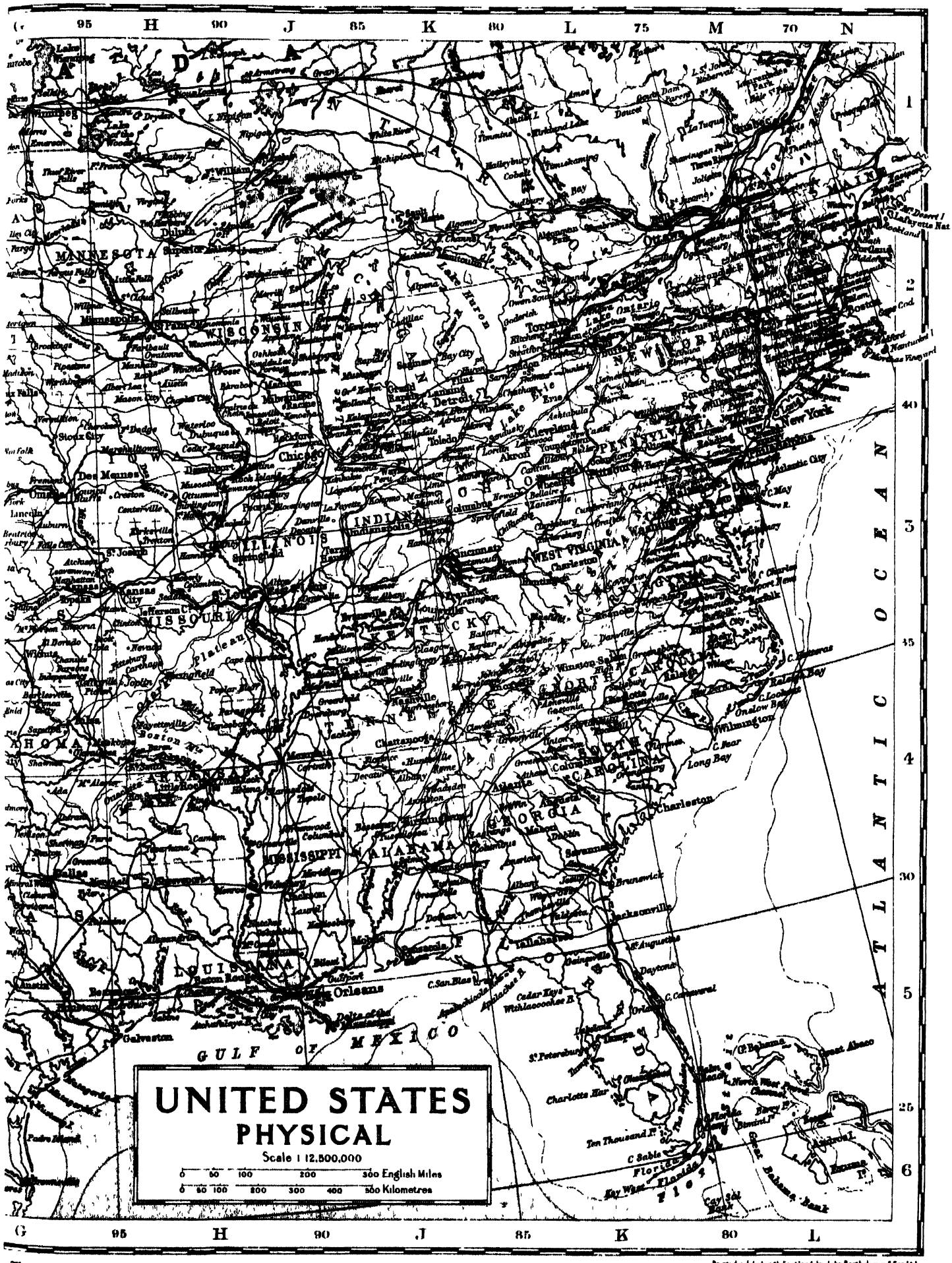
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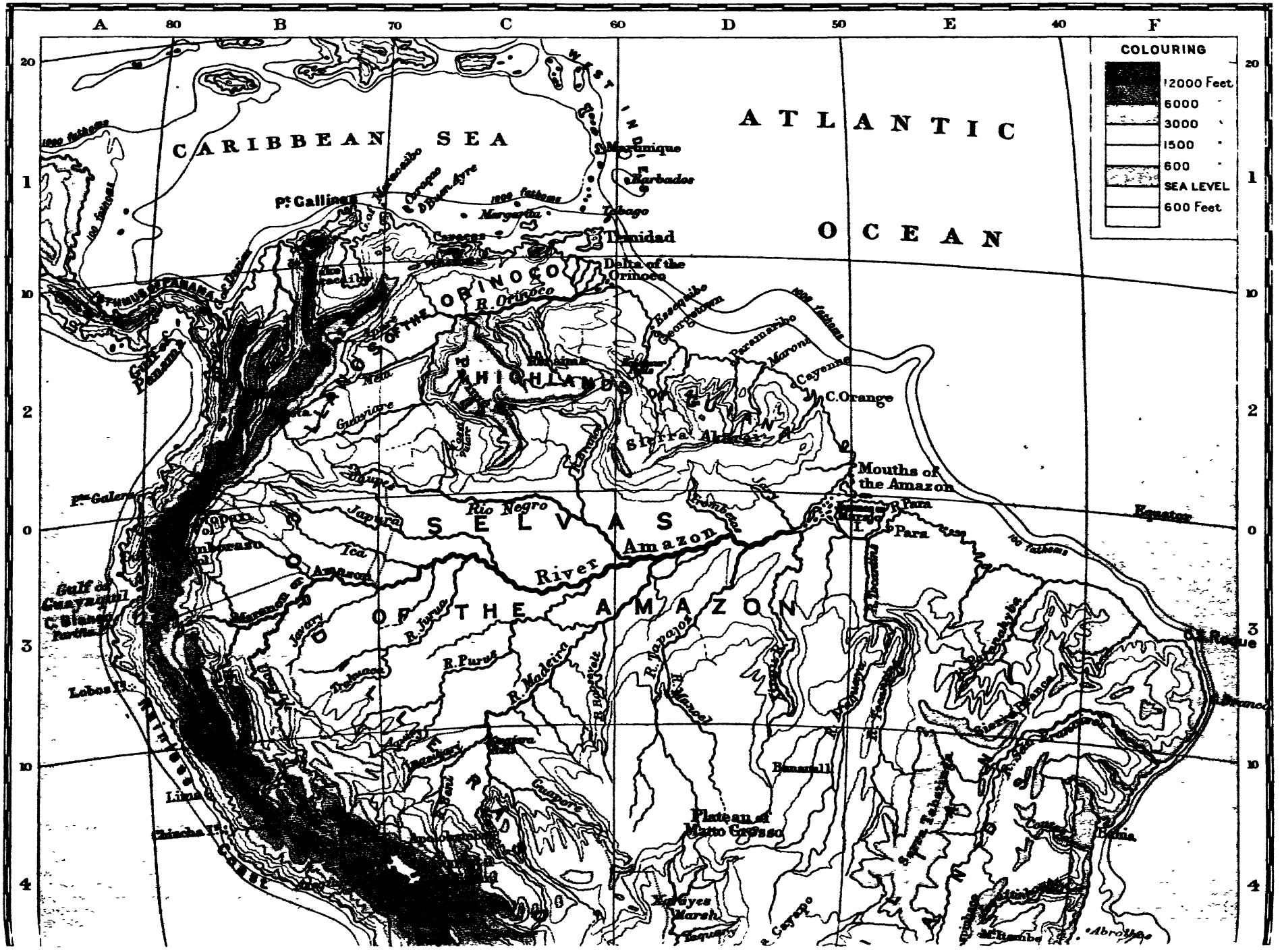
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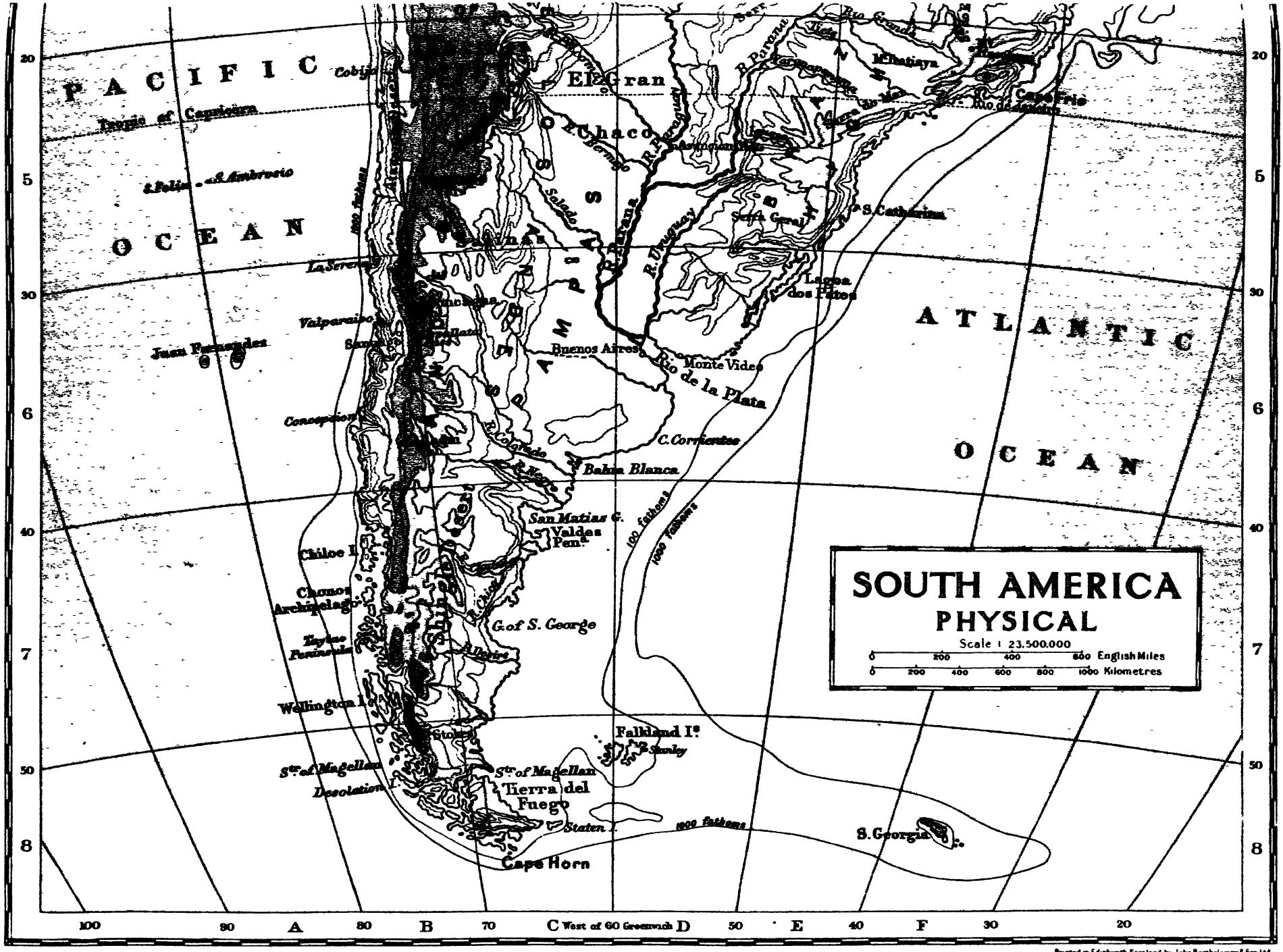
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A
B 120
C 115
D 110
E 105
F 100
1
45
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40
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4
30
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25
6
PACIFIC OCEAN
OREGON
IDAHO
NEVADA
CALIFORNIA
San Francisco
Los Angeles
Gila Desert
Guadalupe
WASHINGTON
MONTANA
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
Badlands
NEBRASKA
COLORADO
Denver
Pueblo
UTAH
ARIZONA
NEW MEXICO
Llano Estacado
TEXAS
Lubbock
El Paso
Ciudad Juarez
SONORA
CHIHUAHUA
COAHUILA
MEXICO
San Antonio
Del Rio
Eagle Pass
Oklahoma
KANSAS
COLOURING
12000 Feet
9000
6000
3000
1500
600
SEA LEVEL
Land Depression
600 Feet
C 115
D 110
E 105
F Longitude West 100 of Greenwich



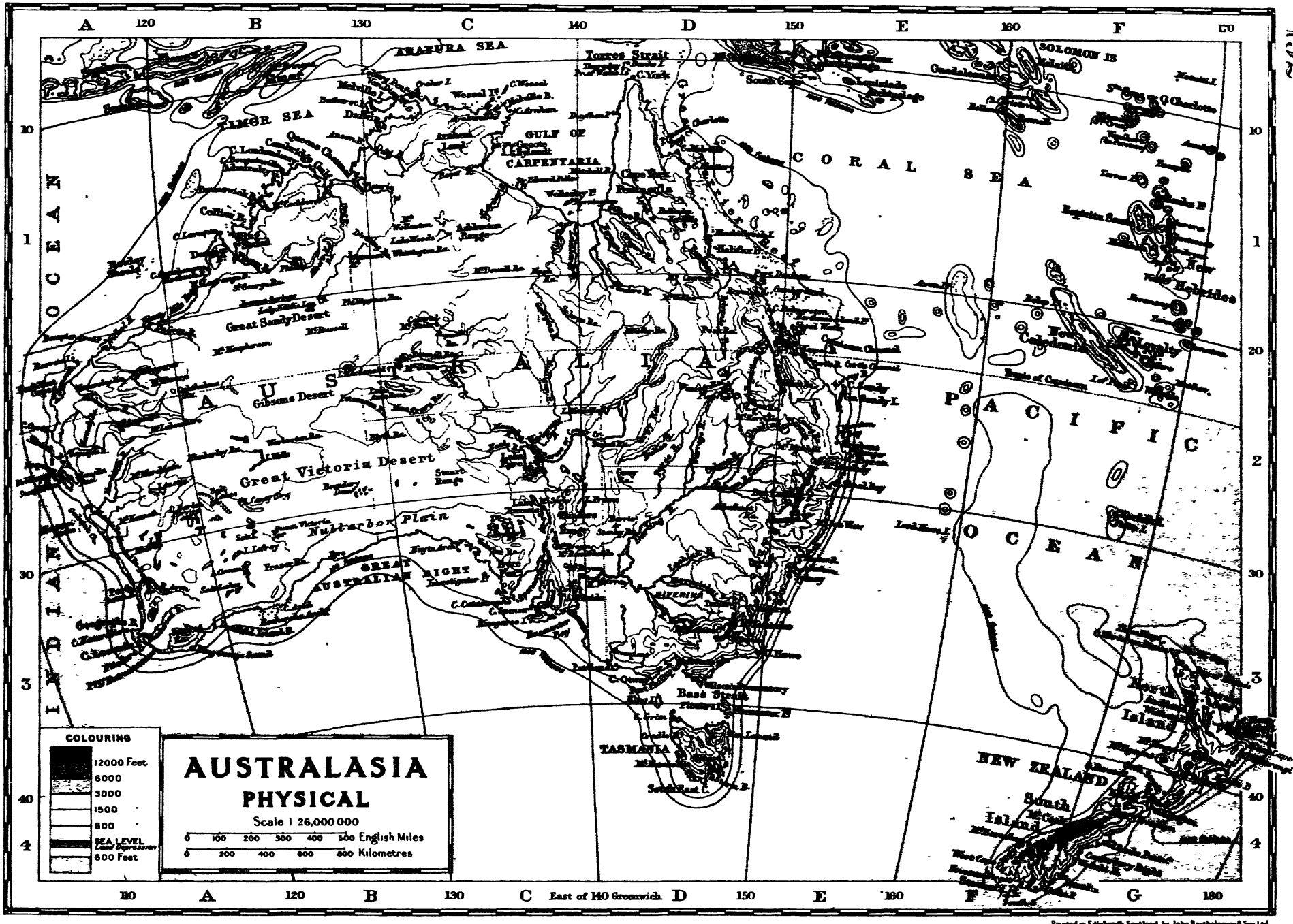
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A
B
C
D
E
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80
70
60
50
40
20
1
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2
0
3
4
COLOURING
12000 Feet
6000
3000
1500
600
SEA LEVEL
600 Feet
CARIBBEAN SEA
ATLANTIC OCEAN
Pt Gallinas
Maracaibo
Orinoco
Dragon's Mouth
1000 fathoms
Margarita
Tobago
Trinidad
Martinique
Barbados
Delta of the Orinoco
R. Orinoco
BASIN OF THE ORINOCO
HIGHLANDS OF GUIANA
Sierra Acaray
Essequibo
Georgetown
Demerara
Berbice
Corentyne
Paramaribo
Marowijne
Maroni
Cayenne
C. Orange
Mouths of the Amazon
Pt Galera
Rio Negro
Japura
Teffé
Amazon
SELVAS
River Amazon
BASIN OF THE AMAZON
Gulf of Guayaquil
C. Blanco
Pacific Ocean
Chimborazo
Cotopaxi
Tungurahua
Sangay
Morona
Jurua
R. Purus
R. Madeira
R. Tapajoz
Tapajos
Xingu
Tocantins
Para
Equator
C. Roque
Lobos Is.
Lima
Chincha Is.
Callao
Arequipa
Titicaca
Beni
Guaporé
Plateau of Matto Grosso
Bananal
Brasilia
Goyaz
Abrolhos
Mt Itambe
Xarayes Marsh
Izozog
Pilcomayo
Paraguay
Parana
Rio Tapajos
Rio Xingu
Rio Tocantins



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INDEX

THE INDEX

How It Was Made and Why It Should Be Used

EVERY important article in the preceding twenty-three volumes of the *Encyclopædia Britannica* contains information not only on the main subject there treated, but on many related subjects, these often running into the hundreds. Thus, the article on "France" is not merely a comprehensive account of that country, its history, physical features and statistics; it likewise gives information of its kings, statesmen, wars, railways, peoples, departments, industries and scores of other matters relating to France. Again the article on "Napoleon" necessarily tells of the man, but it must also, in the nature of things, include much information on the Island of Corsica where he was born, on the campaigns he fought, the laws he enacted, the men and women he influenced or who influenced him, and so on to the Island of St. Helena where he died. The first and primary purpose of this Index is to render *instantly* available, by exact reference to volume, page and section of page, all the information in every article in the preceding twenty-three volumes.

The Index serves also another purpose only less important. It solves any problem as to where to look for a given subject or piece of information; thus, there might be some doubt as to where to look for "Intelligence in Animals," or "Laws of War." The Index immediately settles the question. In this edition the number of article headings has been much increased, but there is a limit beyond which the mere multiplying of headings causes needless repetition and the sacrifice of space that can be devoted to additional knowledge.

All the names shown on the maps in this volume (one hundred thousand in number) are also given in the Index in their proper alphabetical position, so that the Index is also a gazetteer of the world.

The present Index, with its hundreds of thousands of entries, unifies the whole work, tells at once where each piece of information is to be found, prevents unnecessary repetition, and allows a large increase in the total information in the volumes.

The 14th Edition of the *Encyclopædia Britannica* consists of twenty-four volumes, but this gives no adequate idea of how large a work it actually is. When, however, one examines a *Britannica* volume, he finds that each consists of 1,000 pages and that each page contains on an average approximately, 1,450 words, a total for the 24 volumes of 35,000,000 words, or the equivalent of 500 volumes of ordinary size and thickness. If one would realize the usefulness and importance of this Index to the 14th Edition of the *Encyclopædia Britannica*, he has but to picture how absurd would be a series of 500 volumes without an Index, and conversely, how necessary an Index under such conditions must be.

Few encyclopaedias have indexes and none on the scale of the *Encyclopædia Britannica*. The reason for this is, doubtless, because the cost of preparation is so large; but the usefulness of an Index is so evident, and it adds so greatly to the value of the work as a whole, that the publishers of this work have felt that, no matter what the cost, it should be prepared. They earnestly advise every owner to make frequent use of it; it will repay a hundredfold the time spent in consulting it.

The aim of the Index, as has been said, is to refer to the facts distributed under the large number of articles, and therefore to render available all the information in the articles and illustrations. The success attained in this distribution may be estimated from the fact that the refer-

ences in this volume total almost 500,000. The rule followed by the indexers was to make reference cards only in cases where some substantial information is given. Each reference, therefore, refers to one or more essential facts and in essence is, as it were, an encyclopaedic article; it might well be claimed that 500,000 is the approximate number of articles in the 14th Edition. The total number of references the Index might contain would very greatly exceed half a million were it not for the rule followed by the indexers that information in subordinate articles was not to be indexed if covered in a main article. In other words, only necessary references are given.

The reader is referred to the rules and abbreviations given on the succeeding pages. We may here state, however, that the headings in the Index are given in two styles of type—bold-face and light-face. The use of bold-face indicates an article in the *Encyclopædia Britannica;* light-face, information contained in an article or on an illustration or map. The first reference after the heading, if in a square bracket, is always to the atlas maps, that is, to the maps shown in volume 24. Of these there may be one or more according as the reader may find useful information on one or more of the maps. The references that follow the square brackets are to the twenty-three volumes preceding this one. The first reference is always to the article, if there is one of the same title as the Index entry. After that follow others to other articles, arranged alphabetically or according to their importance. References to towns are followed by an abbreviation including the country or State, and often the county, in which they are situated, while physical features such as lakes, rivers, mountains are identified as such. To render the Index still more useful, persons are identified (by abbreviations in parentheses) as to their nationality or profession; similarly, things of the same name are followed by a descriptive word or abbreviation in parentheses.

All illustrations, whether half-tone or colour plates or in the text, are indexed, so that all of this information also is available for the reader. If the reference is to a text illustration, the reference shows its position on the page. If to a full plate it gives the article which the illustration accompanies and the particular figure referred to.

In the case of important articles, as for example, "France," where there are scores, often hundreds of references, the references are grouped together for the convenience of the user under different sub-titles, as Agriculture, Army, Commerce and Industry, Finance, History, etc. These subheadings are arranged alphabetically, as indeed are all references under each subheading, so that the reader will find almost instantly the references for which he is looking.

In this connection the reader is reminded of the fact that in the body of the *Encyclopædia* itself in their alphabetical places are many headings under which are given a list of the more important articles relating to that subject. Thus, the reader will find in the proper places articles entitled *Agricultural Articles*, *Architectural Articles*, *Insurance Articles*, etc. If he desires to continue the subject he will find under the headings there mentioned additional references, so that if he wishes to pursue a course of reading he will be carried along logically from one subject to another.

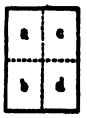
Throughout the 14th Edition the reader will find also an unusually large number of cross references. These also are of great assistance since the reader might look for information under a different heading from that preferred by the Editors.

The reader will also notice that at the outside top column of each page of the Index are given key words or headings which identify the first and last references on that page. These are for the purpose of enabling the reader to locate the more readily the references included within each page. The reader is also urged to read the rules which immediately follow on the next page.

RULES AND ABBREVIATIONS

I. Type.—Headings printed in bold-face capitals (*e.g.*, **FRANCE**) represent article headings in the *Encyclopædia Britannica;* headings in light-face type, information in the text of articles, in an illustration or on a map. Immediately after the headings come the references, if any, to the atlas maps in volume *24*, always enclosed in square brackets. The next reference is to the article heading if there is one. After that the references are to information contained in the text of the various articles; these references, if qualified by a descriptive word, are arranged alphabetically, or, if unqualified, in order of importance.

All references show (1) the volume in bold-face arabic numerals; (2) the page number in light-face type; (3) the exact quarter of the page by means of the letters, a, b, c, d, signifying respectively the upper and lower halves of the first and second columns (*e.g.*, **CANADA 4-600a**). In atlas reference these letters are replaced by an indication of the map square in the usual form (*e.g.*, B4).



A dash (—) denotes the repetition of the preceding heading, or of its first separate word. Hyphenated words are treated as single words. Headings in italic type denote books, poems, plays, reviews, essays, stories, newspapers, histories, etc.; operas, oratorios, cantatas, symphonic poems and similar works. Quotation marks are used for ships, pictures, songs, racehorses, statues, guns, airships, aeroplanes and orations.

II. Alphabetization.—All headings, whether consisting of a single word or of two or more, are treated for the purpose of alphabetization as single complete headings. Individuals of the same name and title are arranged in order of the importance of their titles; *e.g.*, emperors precede kings, dukes precede earls, etc. A classifying word or phrase following the heading and in parentheses is not treated as part of the heading for alphabetical purposes except in a series of identical headings.

Where the same name denotes persons, places and things, the order is (1) persons, (2) places, (3) things.

Names beginning with "Mc" and "M'" are alphabetized as "Mac"; "St." is treated as "Saint"; "SS." as "Saints."

All numerals that might be expected to occur at the beginning of headings are spelled out; the same is true of Greek letters; *e.g.*, α-ray as alpha ray.

III. Geographical Headings.—These, when situated in the British Isles, are followed by the county and the country, when in the United States by the State, when in Canada and Australia by the province and the country, and when elsewhere by the country only, unless two of the same name and character occur in the same country, when the province or department or similar subdivision is given to differentiate them. "U. S. S. R." is the abbreviation used for European Russia and "(Sib.) U. S. S. R." for Siberia. Topographical headings other than towns and villages are described as "riv.," "mt.," etc. In cases like "Big Mountain," "Big River," denoting physical features, the arrangement is

Big, mt.
—, riv.

Such headings as "Big Mountain, Calif.," or "Mount Hope, Mass.," denote towns, not mountains.

IV. Abbreviations.—The following list includes the general contractions adopted for this Index. The contractions used in special branches of knowledge are included in the Index itself and in the article ABBREVIATIONS (vol. 1, p. 23).

LIST OF ABBREVIATIONS

abbrev.	abbreviation
Aby.	Abyssinia
act.	actor
A.D	Anno Domini
adm.	admiral
A.E.F.	American Expeditionary Force
Aeg.S.	Aegean Sea
aero.	aeronautics
A.-E.Sud.	Anglo-Egyptian Sudan
Af.	Africa
Afg	Afghanistan
Af.Rom.	Roman Africa
agri.	agriculture
Ala	Alabama
Alban.	Albania
Alg.	Algeria
Alsk.	Alaska
Als.-Lor.	Alsace-Lorraine
Alta.	Alberta
Am.	America
anat.	anatomy
anc.	ancient
anchor.	anchorage
And.Is.	Andaman Islands
Ang.	Angola
Antarc.	South Polar Regions
anthro.	anthropology
antiq.	antiquities
Arab.	Arabia
arch.	architecture
archae.	archaeology
archbp.	archbishop
archip.	archipelago
Arct.	North Polar Regions
Arg.	Argentina
arith.	arithmetic
Ariz.	Arizona
Ark.	Arkansas
Arm.	Armenia
art.	artist
A.S.	Anglo-Saxon
Ash.	Ashanti
Asia M.	Asia Minor
Assin.	Assiniboia
Assyr.	Assyria
astrol.	astrology
astron.	astronomy
Ath.	Athenian
Athab.	Athabasca
Atl.O.	Atlantic Ocean
au.	author
Aus.	Austria
Austr.	Australia
aut. area	autonomous area
Az.	Azores
b.	born
Babyl	Babylonia
bac.	bacteriology
Bah.	Bahamas
Bal.	Baluchistan
Bal.Is.	Balearic Islands
bart.	baronet
Basu.	Basutoland
Bav.	Bavaria
B.C.	Before Christ
B.C.	British Columbia
Bech.	Bechuanaland
Beds.	Bedfordshire
B.E.F.	British Expeditionary Force
Bel.Cong.	Belgian Congo (including Congo Free State)
Belg.	Belgium
Ber.	Bermudas
Berks.	Berkshire
bev.	beverage
bibl.	biblical
bibliog.	bibliography
biog.	biography
biol.	biology
bldg.	building
Bohem.	Bohemia
Bol.	Bolivia
Bor.	Borneo
boro.	borough
Bosn.	Bosnia
bot.	botany
bp.	bishop
Braz.	Brazil
Br.E.Af.	British East Africa
Brit.	British
Brit.Gui.	British Guiana
Bucks.	Buckinghamshire
Bulg.	Bulgaria
Bur.	Burma
c.	about
C.Af.	Central Africa
Calif.	California
C.Am	Central America
Cambs.	Cambridgeshire
Camer.	Cameroon
Can.	Canada
Can.Is.	Canary Islands
Cape Col.	Cape Colony
capt.	captain
card.	cardinal
Carib.	Caribbean
caric.	caricaturist
C.As.	Central Asia
cath.	cathedral
Cauc.	Caucasia; Caucasus
Celt.	Celtic
cent.	century
Cey.	Ceylon
champ.	champion
chan.	channel
Chan.Is.	Channel Islands
chem.	chemistry
Ches.	Cheshire
Chil.	Chilean
Chin.	Chinese
chron.	chronology
class.	classical
cler.	clergyman
Co.	Company
co.	county
col.	colonel
coll.	college
Colo.	Colorado
Colom.	Colombia
com.	commerce
comm.	commander
comp.	composer
Conf.	Confederate
Conn.	Connecticut
Corn.	Cornwall
Cors.	Corsica
C.R.	Costa Rica
cr.	creek
Croat.Slav.	Croatia Slavonia
crystall.	crystallography
Cu.	Cuba
Cumb.	Cumberland
C.Verd.Is.	Cape Verde Islands
Czech.	Czechoslovakia
d.	died
Dah	Dahomey
Dalm.	Dalmatia
Dan.	Danish
D.C.	District of Columbia
Del	Delaware
Den.	Denmark
dept.	department
Derby.	Derbyshire
Dev	Devonshire
dipl	diplomat
dist.	district
div.	division
dom.	dominion
Dorset.	Dorsetshire
dram.	dramatist
Du.	Dutch
Du.E.I.	Dutch East Indies
Du.Gui.	Dutch Guiana
Du.N.Guin.	Dutch New Guinea
Dur.	Durham
Du W.I.	Dutch West Indies
E.Af.	East Africa
Ec.	Ecuador
eccl.	ecclesiastical
econ.	economics
ed.	editor; edition
educ.	education
Egy.	Egypt
E.Ind.	East Indies
elec.	electricity
embryol.	embryology
emp.	emperor
Eng.	England

engin.	engineering
engr	engraving
entom.	entomology
Ep	Epirus
Erit.	Eritrea
Ess	Essex
Est	Estonia
est.	estuary
ethnol.	ethnology
Eur	Europe
expl.	explorer
f.	father
Falk.Is.	Falkland Islands
fam.	family
fig	figure
Fin	Finland
fin	finance
fl.	flourished
Fla.	Florida
Flem.	Flemish
fol.	following
For.	Formosa
Fr.	France
Fr.Equat.Af.	French Equatorial Africa
Fr.Gui	French Guiana
Fr.I.C.	French Indo-China
Fr.W.Af	French West Africa
ft.	fort
Ga.	Georgia
Gam.	Gambia
gen.	general
geog.	geography
geol.	geology
geom.	geometry
Ger.	Germany
Ger.E.Af.	German East Africa
Ger.S.W.Af.	German S.W. Africa
Gib.	Gibraltar
Glos.	Gloucestershire
Go.Cst.	Gold Coast
gov.	governor
govt.	government
Gr	Greece
gram.	grammar
Green.	Greenland
Gt.Brit.	Great Britain
Guat.	Guatemala
Guin.	Guinea
h.	husband
Hai.	Haiti
Hants	Hampshire
harb.	harbour
Haw.	Hawaii
Heb.	Hebrew
her.	heraldry
Herc	Hercegovina
Hereford.	Herefordshire
Herts	Hertfordshire
hist.	history
hlds	highlands
Holl.	Holland
Hond	Honduras
hort	horticulture
hum.	humanist
Hung	Hungary
Hunts	Huntingdonshire
I.	Island
Ia.	Iowa
Ice.	Iceland
Ida.	Idaho
I.E.	Indo-European
I.F.S	Irish Free State
il.	illustration
Ill	Illinois
Ind.	Indiana
Ind.O.	Indian Ocean
indus.	industry
inst.	institution
instru.	instrument
inv.	inventor
I. of M.	Isle of Man
Ir.	Irish
Ire.	Ireland
isl.	island
isth	isthmus
It.	Italy
Iv.Cst	Ivory Coast
Jam	Jamaica
Jap.	Japan
Jav.	Java
journ.	journalist
jr.	junior
jur.	jurist
k.	king
Kan	Kansas
king.	kingdom
Kor.	Korea
Ky.	Kentucky
La.	Louisiana
Lab.	Labrador
Lac.Is.	Laccadive Islands
Lag.	Lagos
Lancs.	Lancashire
lang.	language
Lat.	Latin
law.	lawyer
Leics.	Leicestershire
Lib.	Liberia
Lib.Des.	Libyan Desert
libn.	librarian
lieut.	lieutenant
Lincs.	Lincolnshire
lit.	literature
Lith.	Lithuania
Lond.	London
Ltd.	Limited
Luxem.	Luxembourg
Lyc.	Lycia
m.	married
Maced.	Macedonia
Mack.	Mackenzie
Mad.	Madagascar
Mad.Is.	Madeira Islands
mag.	magazine
maj.	major
Mal.Arch.	Malay Archipelago
Mal.Penin.	Malay Peninsula
Man.	Manitoba
Mass.	Massachusetts
math.	mathematics
Maur.	Mauritius
Md.	Maryland
Mdx.	Middlesex
Me.	Maine
mech.	mechanics
med.	medicine
Medit.	Mediterranean
mer.	merchant
Mesop.	Mesopotamia
met.	metal; metallurgy
meteorol	meteorology
Mex.	Mexico
mfr.	manufacture
Mich.	Michigan
mil.	military
mil.p.	military post
min.	mineral; mineralogy
minis.	minister
Minn.	Minnesota
Miss.	Mississippi
M.Lat.	Mediaeval Latin
Mo.	Missouri
mod.	modern
Moham.	Mohammedan
Mong.	Mongolia
Monm.	Monmouthshire
Mont.	Montana
Monten.	Montenegro
Mor.	Morocco
ms.	manuscript
mt.	mount
mus.	music
myth.	mythology
N.Af	North Africa
N.Am.	North America
N.Am Ind.	North American Indian
nat	naturalist
natl.	national
naut.	nautical
nav.	naval
navig	navigator
N.B.	New Brunswick
N.C.	North Carolina
N.Dak.	North Dakota
N.E.Af.	North-East Africa
Neb.	Nebraska
Neth.	Netherlands
Nev.	Nevada
news.	newspaper
Nfd.	Newfoundland
N.G.	New Guinea
N.H.	New Hampshire
Nic.	Nicaragua
nick.	nickname
Nig	Nigeria
N.Ire.	Northern Ireland
N.J.	New Jersey
N.Mex.	New Mexico
Nor	Norway
Nort.	Norfolk
Northants.	Northamptonshire
Northumb.	Northumberland
Notts.	Nottinghamshire
nov.	novel
N.S.	Nova Scotia
N.S.W.	New South Wales
N.T.	New Testament
Nub.	Nubia
N.Y.	New York
N.Z.	New Zealand
O.	Ohio
of.	officer
offi.	official
Okla.	Oklahoma
Ont.	Ontario
Oreg.	Oregon
Or.Fr.St.	Orange Free State
orient.	orientalist
ornith.	ornithology
O.T.	Old Testament
Oxon.	Oxfordshire
Pa.	Pennsylvania
Pac.O.	Pacific Ocean
paint.	painting
Pal.	Palestine
palaeog.	palaeography
palaeon.	palaeontology
Pan.	Panama
Parag.	Paraguay
path.	pathology
P.E.I.	Prince Edward Island
penin.	peninsula
period.	periodical
Pers.	Persia
petrol.	petrology
pharm.	pharmacy
philan.	philanthropy
philol.	philology
philos.	philosophy
phot.	photography
phren.	phrenology
phys.	physics
physic.	physician
physiol.	physiology
P.I.	Philippine Islands
Pl.	plate illustration
plat.	plateau
Pol.	Poland
pol.	politics
pol.sci.	political science
pop.	population
Port.	Portugal
port.	portrait
Port.E.Af.	Portuguese E. Africa
Port.Guin.	Portuguese Guinea
P.R.	Porto Rico
pref.	prefecture
pres.	president
print.	printing
prof.	professor
Prot.	Protestant
prov.	province
Prus.	Prussia
pseud.	pseudonym
psych.	psychology
pt.	point
pub.	public
publ.	publisher
public.	publicist
q.	queen
Que.	Quebec
Queens.	Queensland
R.C.	Roman Catholic
rd.	road
rel.	religion
rep.	republic
res.	reservoir
reserva.	reservation
resid.	residency
rev.	revolution
rhet.	rhetoric
Rhod	Rhodesia
R.I.	Rhode Island
riv.	river
Rom.	Roman
R.R.	railroad
Rum.	Rumania
Russ.	Russia
Rutl.	Rutland
ry.	railway
S.	San
s.	son
S.Af.	South Africa
Sah.	Sahara
sail.	sailor
Salop.	Shropshire
Salv.	Salvador
S.Am.	South America
S.Am.Ind.	South American Indian
Sard.	Sardinia
Sask.	Saskatchewan
S.Aus.	South Australia
Sax.	Saxony
S.C.	South Carolina
Scand.	Scandinavia
schol.	scholar
sci.	science
Scot.	Scotland
sculp.	sculpture
sd.	sound
S.Dak.	South Dakota
Sen.	Senegal
Serb.	Serbia
(Sib.) U.S.S.R.	Siberia
Sic.	Sicily
S.L.	Sierra Leone
sociol.	sociology
sol.	soldier
Som.	Somersetshire
Somlnd.	Somaliland
Sp.	Spain
sr.	senior
SS.	Saints
s.s.	steamship
St.	Saint
Sta.	Santa
Staffs.	Staffordshire
states.	statesman
statis.	statistician
Ste.	Sainte
str.	strait
Sud.	Sudan
Suff.	Suffolk
Sum.	Sumatra
Sur.	Surrey
surg.	surgery
Sus.	Sussex
Swaz.	Swaziland
Swed.	Sweden
Switz.	Switzerland
Syr.	Syria
Tas.	Tasmania
Tenn.	Tennessee
terr.	territory
Teut.	Teutonic
Tex.	Texas
theol.	theology
Tib.	Tibet
Togo.	Togoland
trag.	tragedy
Trans.	Transvaal
trans.	translation
Transyl.	Transylvania
trav.	traveller
trib.	tributary
trig.	trigonometry
Trip.	Tripoli
Tun.	Tunisia
Turk.	Turkey
Turkist.	Turkistan
typog.	typography
Ugan.	Uganda
U.K.	United Kingdom
univ.	university
U. of S.Af.	Union of South Africa
Urug.	Uruguay
U.S.	United States
U.Sen.	Upper Senegal
U.S.S.R.	Russia in Europe
v.	versus
Va.	Virginia
val.	valley
Venez.	Venezuela
vet.	veterinary
Vict.	Victoria
vil.	vilayet
Vt.	Vermont
w.	wife
W.Af.	West Africa
Warwick.	Warwickshire
Wash.	Washington
W.Aus.	Western Australia
Westm.	Westmorland
W.I.	West Indies
Wilts.	Wiltshire
Wis.	Wisconsin
Worcs.	Worcestershire
writ.	writer
W.Va.	West Virginia
Wyo.	Wyoming
Yorks.	Yorkshire
Yuc.	Yucatan
Yugos.	Yugoslavia (Kingdom of Serbs, Croats and Slovenes)
Zanz.	Zanzibar
zool.	zoology
Zu.	Zululand

THE ENCYCLOPÆDIA BRITANNICA

FOURTEENTH EDITION

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— (of Bohem., Eng.) **19**-287b; **8**-499a.
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— (**OF CLEVES**, Eng. q.) **1**-986b; **8**-515b fol.; port. **11**-637a.
— (**OF DENMARK**, Eng. q.) **1**-986c; **12**-877a.
— (of Warwick, Eng. q.) **8**-507b; **19**-288a; **23**-376b fol.

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— (of Aus., Fr. q.) **9-027b** fol.; **6-215b**; **13-727a**; Richelieu **19-291d.**
— **(OF FRANCE)** 1-986d; **3-273c**; **5-278a.**
— (Fr., w. of Henry I.) **11-441a.**
— (Fr. princess) **23-122d**; **16-910c.**
— (of Bav.) **11-58d.**
— (Beaujeu): *see* Anne (Fr.).
— (of Este, duchess of Guise): *see* Guise.
— (of Lusignan) **20-26a.**
— (of Orange) **10-185b.**
— (of Pol.) **20-640a.**
— (of Sax.) **11-59d.**
— (of Sp.) **11-58b.**
— (of York) **8-962b.**
— (of Borsselen) **8-077b.**
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— furnace **1-987c**, ill. **1-987**, 988: *see also* Lehr.
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—, Samuel **23-515c.**
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—, bay, Af **23-991c**; **8-689b.**
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Apodektai **5**-790c.
Apodemus: *see* Field-mouse.
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—, **SULPICIUS** **2**-109c.
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Apollo (club) **5**-658c.
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"Apollo Belvedere" **2**-111c; il. **2**-110; Pl. VI. fig. 7 **10**-GREEK ART; **10**-816a.
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—, mts., C.As. [**24**-182 B1], **11**-581b
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— (fish) **4**-779c
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BACHARACH, Ger. [**24**-38 C3]; 2-875d.
BACHAUMONT, LOUIS PETit De 2-875d; 7-324a.
BACH CHOIR, Bethlehem, Pa. 2-876a.
– **CHOIR,** London **2**-875d.
BACHE, ALEXANDER DALlas 2-876a.
—, **FRANCIS E.** 2-876a.
—, **FRANKLIN** 2-876b.
—, **HARTMAN** 2-876b.
—, Walter 2-876b.
—, penin., Ellesmere Isl. map **2**-295 (D2).
Bacheller, J. J. **8**-421b; **18**-352a.
BACHELLER, IRVING ADdison 2-876c.
Bachelor (eccl.) 2-876c.
— (knight). *see* Knight bachelor.
— (trade guild) 2-876d.
– (univ. degree) 2-876c.
BACHELOR 2-876c.
—, Mo. [**24**-141 F3].
—, mt., Oreg. **16**-883a.
— of Arts **22**-875a.
— of Commerce **6**-113b.
— of Letters **22**-875a
– of Philosophy **22**-875a.
– of Science **22**-875a.
Bachelors', The (Eng. club) 5-859d.
Bachelor's button (plant): *see* Cornflower
— gown (U.S.) **19**-355a.
– Tax (It.) **12**-141a.
Bacher Gebirge, mts., Yugos. [**24**-52 B1].
Bachet (math.) **14**-628b.
Bache Tier, Jean-Jacques **18**-351d.
Bach festival, Bethlehem, Pa. **3**-481d
– -**GESELLSCHAFT** (Ger.) 2-877a, 2-870a, 2-874c.
Bachia (lizard) **14**-240d.
Bachian, Bachian I., Mal. Arch. [**24**-72 G4], 2-877b.
BACHIAN (Batjan), isl., Mal. Arch. 2-877a; **11**-110a, **15**-682a.
Bachiru (carving) **12**-842c.
Bachman, John **2**-676b.
Bachmann (instru. maker) **5**-763b.
Bachnagairn, falls, Scot. **9**-507c.
Bachofen, J. J. **13**-202b; **21**-672c.
BaChopi (Af. tribe) **18**-285c.
Bachs, Switz. [**24**-31 E1].
Bach Society, London **2**-876a.
— System (law) **11**-910a.
Bachtel, mt., Switz. [**24**-31 F2].
Bachu (gen.): *see* Balju.
Bachur (pseud.): *see* Elias Levita.
Bachus, N.Y. [**24**-103 E1].
Bachyn, Minn [**24**-135 C7].
Bacikounou, Fr. W. Af. [**24**-80 C2].
BACILLARIALES (DIatoms) (morphol.) 2-877c: *see also* Diatoms.
Bacillary dysentery (med.) **7**-817d; carriers **4**-931d.
– White Diarrhoea **23**-115d.
BACILLUS (bacteria) 2-879d; plate-culture bacteria, fig. 7 **2**-904.
– abortivo-equinus **1**-58c.
– acidificans longissimus **21**-243d.
– acidi lactici **2**-905c.
– acidophilus odontolyticus **15**-184d.
– acnes **1**-126d
– aertrycke **9**-457b.
– alvei **3**-311b.
– amylovorus **18**-37d.
– anthracis **7**-26d; 2-40b; 2-901d; spore fig. 5B **2**-904.
— atrosepticus Pl. I. fig. 5 **2**-BACTERIOLOGY.
—avisepticus **23**-116a.
— botulinus **15**-185a.
— botulinus anti-serum **20**-374a.
Bacillus bulgaricus **2**-905c.
— butyricus **2**-905d.
— carotovorus **18**-38a.
— cereus fig. 11 **2**-906.
— chauveii **23**-115b.
— coli **2**-896a; **2**-898b; **23**-426b.
— cyanogenus fig. 8 **2**-905.
— Delbrücki **4**-102d.
— dysenteriae **2**-898b; **7**-817d fol.
— Enteritidis **5**-616c; **9**-457b.
— influenzae **12**-348d.
— lactis aerogenes **2**-896a.
— lactorubefaciens bacteria fig. 8 **2**-905.
— larvae **3**-311c.
— leprae **13**-957b.
— mallei **10**-391c.
— megatherium **2**-902 fol.
— methanicus **2**-903b.
— mycoides **2**-902b fol.
— oedematicus **2**-893d
– – oedematis maligni **2**-893d.
— oligocarbophilus **2**-903b.
— paratyphosus **8**-619c, **2**-898b.
— perfringens **2**-893d.
— pestis **17**-993b.
— phytophthorans **18**-328b.
— pluton **3**-311b.
— pneumoniae **18**-100b.
— proteus Pl. I. fig. 21 **2**-BACTERIOLOGY.
— pullorum **23**-115d
— pyocyaneus Pl. III. fig. 2 **2**-BACTERIOLOGY.
— radicicola **20**-932a
— solanacearum **18**-37d.
— subtilis fig. 1 **2**-900, spore formation fig. 5A **2**-904.
– – suipestifer **21**-670b; **9**-457b.
– – tetani **22**-72b.
— tracheiphilus **18**-37d.
— tuberculosis **15**-249c; lupus **14**-487c
— tularense, **2**-893c.
— typhosus **2**-898b, Enteric fever **8**-619c; typhoid fever **22**-646a, typhoid inoculation **22**-72a
— vulgaris fig. 1 **2**-900.
— welchii **2**-893d; anti-serum **20**-374a
Bacin (vessel): *see* Basin.
Bacinet (armour): *see* Basinet.
Baciocchi, Felice **12**-800c
BACK, SIR GEORGE 2-880a, **2**-294a
–, bay, India **3**-830a
–, riv., Can. [**24**-187 E2].
— (anat.) **1**-882d.
— (football) **9**-470c, **9**-486b.
Bačka, dist., Eur **23**-916d
Back-acting trencher **21**-367a.
— -angle **5**-303c.
— -band (harness) **19**-805a.
Backbarrow, Eng. **3**-148c
Back Bay, Va. [**24**-110 H4].
— Bay, dist., Mass. **3**-932d.
Back-block schools, N.Z. **4**-198d.
BACK-BOND (law) 2-880a.
Backbone, mt., Md. **15**-2c.
—, mts., W Va [**24**-111 D2].
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BACK-CHOIR (retro-choir) **2**-880a.
— -drop (stage) **21**-288b
Backed (weaving) **23**-456d.
Backer, J. de **3**-821d.
BACKERGUNGE, dist., India **2**-880b.
Backers, Americus **17**-897d.
Backfield (Am. football) **9**-486a.
Backford, Eng. [**24**-16 D1; **24**-13 B4].
Back-formation (etymology) **17**-988a.
BACKGAMMON (game) **2**-880c.
Background (paint) **13**-669d; **18**-269b.
— noise (radio) **4**-216a.
Backhand (tennis) **13**-790a.
Backhouse (fam.) **3**-106c.
BACKHUYSEN, LUDOLF 2-882a.
Backing up (baseball) **3**-166a.
Back-letter (Scot. law): *see* Back-bond.
Backlund, Oscar **16**-674c.
BACKNANG, Ger. [**24**-38 E5]; 2-882a.
Backoo, N.Dak. [**24**-136 G1].
Bačkovo (Bulg.) **21**-313a.
Back-palming (conjuring) **6**-263b.
Back picks (weaving) **9**-956d
Backplate (armour) il. **2**-394d.
Back-pressure engine **8**-964a.
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Backspin (golf) **10**-503c.
BACK'S RIVER, riv., Can. **2**-882b.
Backstairs, passage, Austr. [**24**-170 D5].
Backstitching **11**-703c.
Backstop (baseball) **3**-166a
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Back Stroke **21**-664d
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—, Pa. [**24**-106 C2].
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BACKWARD CHILDREN 2-882b.
Back-washing (mfr.) **23**-794d.
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Bac-ninh, Fr. I.C. [**24**-71 C1].
Baco, John (monk): *see* Baconthorpe, John.
Bacoachic, Mex. [**24**-158 C1]
Bacoli, It. **2**-933c.
BACOLOD, P.I. **2**-883b.
Bacolor, P.I. [**24**-73 B2].
Bacon (chemist) **5**-406c
Bacon, Benjamin W. **14**-910c.
BACON, FRANCIS, baron Verulam, viscount St. Albans **2**-883b; **2**-884c; **17**-751b; **12**-71a; **2**-884b; astrology **2**-577a; Robert Boyle **3**-994c; Brackley **3**-1004a; Buckingham **4**-316a, camera obscura **4**-660b, Coke **5**-981a fol; condemnation **8**-519c, cryptography **6**-807c; Descartes **7**-248a; E. Devereux **8**-722d fol.; essays **8**-716c; Gilbert **14**-638d; heat **8**-438c; King's counsel **3**-143c; landscape arch. **13**-664b; logic **14**-323c; *Misfortunes of Arthur* **11**-867a; museums **15**-1001d; *New Atlantis* **22**-915b; philosophy **2**-886b; psycho research **18**-709b; method **23**-227a; rhetoric **19**-248b; science **20**-121c; **19**-133c; Shakespeare **20**-447d; style **8**-585a; Vico **23**-121c; works **2**-884c: *see also* Baconian method.
—, **HENRY 2**-887d; Pl. figs 4, 11 **14**-LINCOLN
—, Sir Hickman **3**-132a.
—, J. H. **15**-624d.
—, **JOHN** (sculp.) **2**-887d.
—, John (Carmelite monk): *see* Baconthorpe, John.
– –, **LEONARD 2**-888a.
BACON, NATHANIEL (sol.) **2**-888c, **23**-188a.
—, **SIR NICHOLAS 2**-888c
—, Sir Reginald **3**-341c, **23**-785d.
BACON, ROBERT 2-889a
BACON, ROGER 2-889a; camera **17**-800b; Charles I. **5**-266b; Clement IV. **5**-794b; diving **7**-445c; diving-bell **7**-449b; form **9**-612d, gunpowder **8**-986d **11**-3b; life span **14**-376d; optics **4**-658d; Peregrinus **14**-637d, science **7**-676b; **19**-121a, spectacles **21**-177d; theology **19**-33c; William of Rubruquis **19**-615b
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—, Wash [**24**-150 F3].
—, co., Ga. [**24**-114 D5].
—, isl., Fiji Is. [**24**-176 G4]
—, volcano, P.I. [**24**-73 B4].
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Bacona, Oreg. [**24**-151 B2].
Baconao, riv., Cu. **6**-833c
BACONIAN METHOD (philos.) **2**-892c.
Bacons, Del. [**24**-109 D2].
— Castle, Va. [**24**-110 H3; **15**-636b.
— Neck, N.J. [**24**-105 A3].
Bacon's Rebellion (1676) **2**-888c
BACONTHORPE (BACON, Baco, Bacconius), John 2-892c.
Bacori (tree) **1**-734c.
Bacot, Jacques **22**-185d.
Bacot (entom.) **15**-185b.
Bacot (bact.) **17**-994b.
Bacqueville, Fr. [**24**-24 F2].
BAQBANYI, JANOS 2-892d.
BACTERIA AND DISEASE 2-892d; animal experimentation **1**-970b; **2**-78d; abcess **1**-63d; **3**-500d; cells **8**-918d; viruses **9**-237d; **9**-457a; food **9**-458a fol.; forest **9**-501b; immunization **12**-113d; milk **15**-487c; nitrogen **16**-470d, palaeobotany **17**-72b; phosphorescence **17**-779d; plants **18**-1c, **18**-37d; sand **23**-425c; soil **20**-930c; skin **20**-754c, van Leeuwenhoek **1**-48c; ventilation **11**-350c; water **23**-406d.
Bacterial flora **7**-382b.
— infection **2**-896b.
– irritant (path.) **12**-343d.
Bacteriological incubator **12**-143b.
BACTERIOLOGY (med.) **2**-899c; animal experimentation **1**-970b; cancer **4**-734d; Cohn **5**-979a; colds **5**-990b; developments **15**-196a; leucocytes **12**-115c; research **15**-181b, **15**-447b, technique **2**-901c.
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Bacterio-purpurin **3**-390d.
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— radicicola **2**-908a.
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Bacterium tabaci **18**-38a.
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Baculite (min.) **6**-808d.
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BADAGA (tribe) 2-912a.
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Baddesley Clinton, Warwick., Eng. **21**-802a; **23**-370a.
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Baddu, Lib. [**24**-80 C5].
Bade Insel, dist., Ger. **13**-502d.
Bad Elster, Ger. [**24**-39 H3].
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– –, Fr. [**24**-25 C4].
–, Ga. [**24**-114 C6].
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– –, Minn. [**24**-134 B3].
– –, Nfd. [**24**-93 B2].
—, S. Dak [**24**-137 G2].
—, bay, Nfd. [**24**-93 C2]
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— -baiting (sport) **2**-916b.
— -dog. *see* Dachshund
– hair **4**-293a; **2**-916b
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—, S.C. [**24**-113 D3].
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—, Gunselm de, baron **2**-917c.
—, Lady Margaret de Clare **2**-917d.
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— glands (anat.) **14-524b.**
— plexus **16-234c; 16-240c.**
Coelioscopy (med.): *see* Laparoscopy.
Coelleda, Mo. **[24-140 E4].**
COELLO, ALONSO S. 5-960a.
—, **ANTONIO 5-960a;**
COELLO, CLAUDIO 5-960b.
—, Isabella S. **5-960a.**
Coelo De (Aristotle) **20-137d.**
Coelogenys: *see* Paca.
Coelolepidae (fossil) **6-923b.**
COELOM AND SEROUS Membranes (anat.) **5-960c; 5-970d;** ear **7-825d;** ferret embryo **11. 20-734;** in Enterozoa **23-977d.**
— (zool.) of Annelida **1-988b;** (zool.) of leeches **1-996d.**
COELOMATA (zool.) **5-971c; 1-127a; 23-977d.**
Coelomic fluid (zool.) **3-1001a.**
Coelomoduct (zool.) **23-102d,** Annelida **1-988c;** functions **3-389a;** in phoronis **17-778a,** molluscs **15-675d;** trochophore **12-553c.**
Coelomostome **23-102d.**
Coelopeltis (snake) **20-852d.**
Coelopeltis: *see* Spanish lizard.
Coeloplana (zool.) **6-831c.**
Coelops (bat) **5-590d.**
Coelospiridae (zool.) **3-1001c.**
COELOSTAT 5-971c; 16-674b.
Coelred (Mercia) **15-266a.**
Coemgin, Gilla. *see* Gilla Coemgin.
Coemptio (Rom. law) **19-451c;** Cicero **6-226b;** *see also* Confarreatio.
COEN, JAN P. 5-971d; 3-199c.
—, Austr. **[24-169 B1].**
Coenaculum (Jerusalem) **17-926a.**
Coena Domini, In (papal bull) **22-802d, 17-219b.**
Coenobite **11-595d.**
Coenobitidae (crab) **6-627b.**
Coenoecium (zool.) **18-730a.**
Coenolestes (zool) **7-938b;** *see also* Opossum-rat.
Coenoor, India **[24-67 C4].**
Coenopteridaceae **18-729a.**
Coenosarc **12-2b; 12-6a.**
Coenred (k. of Mercia) **1-274d; 8-726b 15-266a.**
Coen River (Austr.) **2-737b.**
Coenurus (zool.) **21-805b.**
Coenus (gen.) **11-957b.**
Coenwalh (of Wessex) **7-858a.**
COENWULF (k. of Mercia) **5-971d; 14-363b; 13-328a**
COERCION 5-972a; 9-748a
— Act **10-387c; 9-521c; 11-136a.**
Coercive field (phys.) **14-660a**
Coercivity (phys.) **14-660b,** elec. **14-642c**
Coerulignol (chem.): *see* Propylguaiacol.
Coerulignone *see* Cedriret.
Coeruline (dye) **7-804c.**
Coës **13-962c.**
Coesse, Ind. **[24-126 C1].**
Coesvra **17-444a**
Coetivy, isl., Ind O. **20-422a.**
Coetlogon, Dennis de **8-426d.**
Coëtlouh, council of (848) **16-482d.**
Coetnempren, Armand G. S. de, comte de Kersaint: *see* Kersaint.
Coetus (rel. body) **19-44d.**
COEUR, JACQUES (Fr trader) **5-972a;** Bourges house **21-209b, 11-813a;** il. **11-811;** fig R **2-230.**
—, lake, Ida **[24-145 B2].**
Coeur à Coeur (play, Coolus) **6-378d.**
COEUR D'ALENE (N. Am. Indians) **5-972c;** Idaho **12-60d; 19-888b.**
COEUR D'ALENE, Ida. **[24-145 B2]; 5-972c.**
—, lake, Ida. **12-60b.**
—, mining dist., Idaho **22-304d.**
—, mts., Ida. **[24-145 B2]; 12-59d.**
Coeur de Lion: *see* Richard I
Coeur double, Roi au masque d'or (Schwob) **20-114c.**
Coeuret, Adam: *see* Lesage.
Coëx, Fr. **[24-24 D5].**
Coeymans, N.Y. **[24-103 G3].**
Cofanes (tribe) **10-928b.**
Cofe (slang): *see* Cove.
Coffea (plant) **5-972d.**
— arabica: *see* Coffee tree.
— excelsa **5-972d.**
— liberica: *see* Liberian coffee; Coffee plant.
— robusta: *see* Congo coffee.
— stenophylla: *see* Sierra Leone coffee.
Coffee, co., Ala. **[24-118 C4].**
—, co., Ga. **[24-114 D5].**
—, co., Tenn. **[24-117 E2].**
—, Calif. **[24-154 B2].**
—, Ga. **[24-114 D5].**
—, Va. **[24-110 E3].**
COFFEE (drink) **5-972d;** adulteration in Eng. **1-187d, 1-191c;** Arabia **2-175d;** berry **5-972d** fol.; Brazil **4-55a;** caffeine **13-770b;** Colombia **6-82c;** Costa Rica **6-490a;** Cuba **6-836c,** disease **18-36a;** indust. Du. E.I. **7-872c;** India **12-181a;** native to Kaffa, Abv. **13-237c;** name **1-72b;** physiol. action **5-973b;** production **22-494c;** Rio de Janeiro **19-316a;** Santos **19-982c;** Imports (1900-26) **1-416b;** Venez. **23-52a.**
Coffee Liberian: *see* Liberian coffee.
—, mt., St. Thomas, W.Af. **19-859d.**
— **PREPARATION OF 5-975d.**
— **-BERRY 5-976b.**
— flowers and berries il. **5-973.**
— -house (inn) **5-973b;** first **19-229b;** in Eng. **5-858c.**
— -leaf **5-975a.**
— -leaf disease **5-974a.**
— -picking il. **5-973d.**
— plant **19-614a.**
— -seed **5-974a.**
— Springs, Ala. **[24-118 D4].**
— sugar. *see* Demerara.
— tannin **21-795c**
Coffeen, Ill. **[24-129 C4].**
Coffeeville, Miss. **[24-119 C2].**
Coffeoideae (bot.) **19-614a.**
COFFER (arch.) **5-976c.**
Coffer (chest) **5-976c; 5-436d;** marriage **4-976a;** *see also* Chest.
— **-DAM** (engin.) **5-976c;** foundations **9-555c;** fig. **3 9-555;** bridge construction **4-135c;** tunnel construction figs. **22-563** fol.
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Cofferer (Eng. offl.) **23-341a.**
Coffey, Aeneas **21-244c** fol., still **23-570a.**
—, co., Kan. **[24-142 G3].**
—, Mo. **[24-140 C1].**
COFFEYVILLE, Kan. **[24-142 G4]; 5-976c.**
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—, J. H. **4-474c.**
—, Levi **22-681a.**
—, Lucretia: *see* Mott.
—, bay, Austr. **[24-170 B5].**
—, isl., Can. **[24-88 H1].**
COFFIN 5-976c; Egyp. **8-49a; 8-60c;** decoration of **8-47b,** wooden Pls. VIII. and XI. fig. Bottom **8-EGYPT;** varieties **7-97b.**
Coffman, Mo. **[24-141 G4].**
Coffmhal, Jean B. **19-356d.**
Coffinships (nick.) **18-77a.**
Coffs Harbour, N.S.W. Austr. **[24-171 L3]; 16-332d.**
Cofield, N.C. **[24-112 J1].**
Cofre de Perote, mt., Mex. **15-377d; 12-871b.**
COG 5-977c.
Cogad Gaedel re Gallaib (Ir. history) **12-642c.**
Coganus, riv., Asia. M.: *see* Kuzu.
Cogan, Milo de **12-603a**
— House, Pa. **[24-107 D2].**
Cogar, Okla. **[24 143 E3].**
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Coggan, Ia. **[24-138 F2].**
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—, **CHARLES F. 5-977d.**
—, Rose (Ir. act.) **5-977d.**
—, **SIR TIMOTHY A. 5-977d.**
Cogioba (tobacco): *see* Cohiba.
Cogito, ergo sum (philos.) **4-941d; 7-248b; 13-455c.**
Cogliano, mt., Alps **1-604d.**
COGNAC, Fr. **[24-26 C2]; 5-978a.**
— (brandy) **5-978a; 23-654c**
—, Kan. **[24-142 A4].**
—, treaty of (1526) **5-978a,** Clement VII. and Francis I. (of Fr.) **5-794d;** League **17-213b.**
— pot still fig. **3 21-244.**
Cognatic system **19-453d.**
COGNE, It. **5-978a.**
Cognelée, ft., Belg. **3-367c**
Cogniet, Léon **3-852a.**
COGNITION 5-978b; Avicenna **2-187d;** contemporary "theory of knowledge" **13-463d;** Fichte **9-218a** fol.; (psych.) **5-978b;** Hume **11-881a;** Kant **13-268b;** problem of truth **22-522a** fol.' Plato **17-746b;** Pūrva Mīmāṁsā **12-252a,** Scotus **7-744d;** substance **21-501b;** transcendentalism **22-405c, 13-680a; 13-679b** fol., abilities **1-47c;** animals **1-962a.**
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— (heraldry) **5-978b.**
Cognomen **16-64a.**
Cogolludo, Sp. **[24-32 E2].**
Cogon, riv., Fr. Gui. **[24-80 B3]; 9-759b.**
Cogón (grass): *see* Lalang
Cogredient (math.) **1-608b**
— isomorphism **10-811d**
Cogswell, Alice **7-102d**
—, N.Dak. **[24-136 G3]**
Coguar, Can **[24-89 A1]**
Cogul, Sp. **2-241d.**
Cohagen, Mont **[24-144 E2]**
COHAN, GEORGE M. 5-978b; 7-612b, vaudeville **23-13d**
Cohansey, cr., N.J. **[24-105 A3].**
Cohasset, Mass. **[24-99 D1]**
—, Minn **[24-134 E4].**
Cohay, Miss. **[24-119 C3].**
COHEN (name) **5-978c.**
—, A. **13-63d.**
—, Arthur **5-714c**
—, **ERNST JULIUS 5-978c**
—, Hermann **16-215d,** Marburg school philos **13-42c,** place in hist. **17-756d.**
—, Philipp A. **15-308b.**
Cohenite (min.) **15-342b**
"Cohens v. Virginia" **14-969b**
COHEREER (phys.) **5-978d,** elec. waves **8-302c** fol.
COHESION: Solid State, Theory of: *see also* **21-503b, 21-595d, 6-823a, 18-23c.**
Cohiba (tobacco) **23-537a.**
Cohn: *see* Cohen.
—, **FERDINAND J. 5-978d,** bacteria classification **2-901a;** diseases of bees **3-311b,** deposits **20-716a.**
—, **GUSTAV 5-979b.**
—, Jonas **1-272d.**
—, Ill **[24-129 E4].**
COHNHEIM, JULIUS 5-979b, cancer research **4-734b.**
Cohnheim's hypothesis (med.) **22-544d.**
Cohn Viehig, C.: *see* Viehig, Clara.
Cohoctah, Mich. **[24-131 G7]**
Cohocton, N.Y. **[24-102 C3].**
—, riv., N.Y. **[24-102 C3].**
Cohoe (fish) **1-937d.**
COHOES, N.Y. **[24-103 G3], 5-979c;** housing **11-842a**
Cohon, O **[24-124 B2].**
Cohors amicorum **5-979c.**
— praetoria (army) **5-979c**
COHORT (Rom. army) **5-979c; 19-394d; 2-399a.**
Cohortes urbanae **18-411a.**
— vigilum **18-411b** fol
Cohuna, Austr. **14-764d**
Cohutta, Ga. **[24-114 B2].**
—, mts., Ga **[24-114 B2].**
Coiba, isl., Pan. **[24-158 H6], 17-168b.**
COIF 5-979d; 19-353d.
Coign (arch.) **5-980b.**
Coigny, François **2-778c.**
Coil (elec.) **15-888b,** choking **8-287a**
Colla, Miss. **[24-119 C2].**
Collachra, Scot. **13-206a.**
Coil aerial **23-665b.**
Coil and plunger **8-332c.**
— antenna **2-24c, 7-416c**
— -clutch (mech.) **5-864d** fol
— drive speaker **18-904c.**
Coiler, cotton machinery Pl V. fig. 2 **6-COTTON AND THE COTTON INDUSTRY.**
Coiled work **3-179b.**
Coilling **18-373c.**
Coillard, François **3-134c.**
Coil magnetometer **14-671d.**
Coimbatore, dist., Madras, India **5-979d.**
COIMBATORE, India **[24-64 E7]; 5-979d; 14-614d**
Coimbra, Pedro, duke of: *see* Pedro.
—, prov., Port. **[24-32 B2]; 3-832a.**
—, Braz. **[24-163 A6]**
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—, University of **5-980a; 7-1003c; 18-277b; 22-866a.**
Coin, Ark. **[24-120 B1].**
—, Kan. **[24-142 B3].**
COIN, Sp. **[24-32 D4]; 5-980b.**
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Coinage **15-695d;** alloys **15-570c;** anc. Rom. **16-621b;** bronze **15-570d;** Celtic **2-256d;** dating **16-624b;** decimal: *see* Decimal coinage. dime **7-388b;** Greece **1-218a, 16-616a;** Lydia **14-516c;** marks on anc **16-617a;** mediaeval Eur. **16-624b;** metals **1-663a; 22-438b;** Pl. I **16-NUMISMATICS. 5-980b** fol.; figs. 11, 15 **2-257,** coining die fig 1 **7-353,** cutting machine fig 1 **15-580;** coining press fig 2 **15-581;** India (ancient) **12-212c** fol.; manufacture **15-579a;** numismatics **16-615b,** Oliver Cromwell **6-761b,** portraits on anc. **16-623d**
Coinage Act **7-189a.**
— **OFFENCES 5-980b.**
Coincidence range-finder (instru.) **16-973b.**
Coincidental hallucinations (psych.) **11-108b.**
Coincy, children of Mme de, Miniature Pl. II. fig. 8 **15-MINIATURE PAINTING.**
"Coin de Table, Un" (paint., Fantin Latour) **9-69d**
Coin de village, Un (nov., Lemonnier) **13-908b.**
Coin-handling device **16-716a**
Coipasa, lake, Bol **3-813d**
—, salt marsh, Bol. **3-814b, 1-902a.**
Coir, isls., Ind. O.: *see* Laccadive.
COIR (coco-nut fibre) **5-980d.**
Cóir Anmann **12-642c.**
COIRE, Switz. *see* Chur
Coire Cheathaich (poem: MacIntyre) **20-186d.**
Coir matting: *see* Matting
Coirons, mts., Fr. **[24-27 H3], 2-308b.**
Coirp-dire (body-fine) **4-86d.**
Colt, Stanton **17-710d.**
—, Stanton (elec.) **8-757b.**
—, O. **[24-124 D2].**
Coltó, Braz. **[24-164 C3].**
Coix (plant) **10-655a; 10-654b.**
— Lachryma-Jobi (grass) *see* Job's Tears.
Cojedes, Venez. **[24-162 D2]**
—, riv., Venez. **23-49b.**
Cojeul, riv., Fr. Battle of Arras (1917) map **2-129.**
Cojimies, mts., Ec. **7-935b.**
Cojoeua, Rum. **[24-53 B2].**
Cokato, Minn. **[24-135 D6].**
Cokayne, Sir Aston **7-529c.**
Coke, Thomas, earl of Leicester: *see* Leicester.
COKE, SIR EDWARD 5-980d, admiralty law **1-171d,** and Brackley **3-1004a;** Benevolence taxes **3-404c,** common law **6-123b.**
—, **SIR JOHN 5-981d.**
—, T. W.: *see* Leicester of Holkham.
—, **THOMAS** (bp.) **5-982a.**
—, Thomas (agri.) **5-49b, 6-856a.**
—, co., Tex. **[24-122 D4].**
—, Va. **[24-110 H3].**
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— borings (Indus.) **6-479a.**
— breeze (fuel) **21-363a.**
Cokeburg, Pa. **[24-106 A3].**
COKE OF NORFOLK: *see* Leicester of Holkham.
— oven **5-982c** fol.; gas production **9-899a.**
Coke-oven gas **12-500c.**
— tar (chem.) **5-371a.**
Coker Creek, Tenn. **[24-117 G2].**
Cokermue (Cokermuth), Ire.: *see* Cockermouth
Cokesbury, Md. **[24-109 I2]**
Cokesbury, S C. **[24-113 I2]**
Coke's hartebeest **2-21c**
Cokeville, Pa. **[24-106 B3]**
—, Wyo. **[24-146 B3].**
Coke-washing plant (engin.) Pl. fig. 6 **10-GAS MANUFACTURE.**
Coking: *see* Coke, Coking and High Temperature Carbonization.
Col (pass), e.g. Col de Balme, Col de Fenêtre, etc.: *see* Balme, Fenêtre, etc.
COL (phys. geog.) **5-986b.**
Col. (abbrev.) **1-24a.**
Cola (dynasty) **12-224a.**
— (prosody) **4-528a.**
— acuminata: *see* Kola nut: *see also* **16-616a**
Colaba, dist., Bombay **3-830b**
Colac, Viet., Austr. **[24-170 F7]**; dairying **23-123d**
Colachel, India **[24-67 C5].**

Colair, lake, India [24-67 D3; 24-182 F5].
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— auratus (bird): *see* Golden-winged flicker.
— auratus luteus 9-375d.
Colaptes auratus: *see* Golden-winged woodpecker.
Colaptes cafer: *see* Red-shafted flicker.
Colaptes campestris 23-724d.
— chrysoides: *see* Gilded flicker.
— chrysoides mearnsi (bird) 7-918d.
Col arco (mus.) def. 2-289b.
Colardeau, (phys.) 22-983c.
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COLBERT, JEAN B. 5-986b; La Fontaine 13-590c; finance 9-629a; revision of handwriting 4-616b, transportation 22-416d.
COLBERT DE CROISSY, Charles, marquis 5-987c.
—, co, Ala. [24-118 B1].
—, Okla. [24-148 G5].
—, Wash. [24-150 H3].
Colborne, Can. [24-90 D3].
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—, Ind. [24-126 B2].
—, Wis [24-132 D4].
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—, Kan [24-142 A2].
—, O. [24-124 C2].
—, Wis. [24-132 C5].
— Coll. (Me.) 23-434a; 14-688b
— furnace fig. 7 8-334.
COLCHAGUA, Chile [24-165 B3], 5-988a.
COLCHESTER, CHARLES Abbot, 1st baron 5-988b.
COLCHESTER, Ess., Eng. [24-14 D4]; 5-988b, Cunobelin 14-362b; earthquake, 1884 7-816d; oyster-beds 4-150a; 8-724b ; *see also* Camulodunum.
Colchester, co., N.S., Can. [24-88 F3].
—, Conn. [24-101 D1].
—, Ill. [24-128 B3].
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Colchian laurel 13-760b.
Colchicine: *see* Colchicum
COLCHICUM (plant) 5-988d. Illiaceae 14-121a.
— (med.) 5-988d; 22-71d.
— alpinum (plant) 1-697d.
— autumnale: *see* Autumn crocus; Meadow saffron.
— poisoning, antidote 5-989a
COLCHIS (anc.), dist., Asia M. 5-989a; map 17-518 (C1), 5-57d, Golden Fleece 2-333d; Medea 15-170c; Pers empire 17-570a, *see also* Georgia, U.S.S.R.
Colcomb Bechar, Alg. [24-78 D2].
COLCOTHAR (chem.) 5-989c.
COLD (physiol.) 5-989c.
COLD (disease) 5-990b, *see also* Catarrh.
—, lake, Alta., Can. [24-91 D2].
—, Aston, Eng. [24-17 D3].
Coldbeck, Eng. [24-13 B3].
Cold-blooded animal: *see* Poikilothermic.
— Bokkeveld, S.Af. 15-341d.
Coldbrook, Mass. [24-98 B1].
Cold Brook, N.Y., (Fulton co.) [24-103 E2].
— Brook, N.Y. (Ulster) [24-103 F3].
— chisel (tool) 5-991b.
— cream (cosmetic) 6-486d.
Coldcreek, Wash [24-150 F4].
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— galvanizing process (met.): *see* Electrolytic galvanizing process.
— gilding (process) 10-349a.
— Harbour, pt., London, Eng. 14-381d
— **HARBOR**, Old and New Va. 5-991d; battle map 1-756, 1-765a; 23-600b.
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Colditz, Ger [24-39 H2]
Cold light (phys.) 17-780c.
— meat party 10-17a.
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— pressed oils 16-749b.
— process (soap) 20-859b.
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— riveting (mech.) 19-338a.
— rolling brass 4-43b.
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—, N.J. [24-105 B3].
—, N.Y. [24-102 G4].
—, Pa [24-107 F2].
—, S.C. [24-113 B3].
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—, Wyo. [24-146 G3].
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— starting engines 12-505a.
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— Stream, pond, Me. [24-96 D3].
Coldstream Guards 10-937b; 5-272b.
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—, Miss. [24-119 C1].
—, N. Dak. [24-136 E3].
Cold Water, N.Y. [24-102 C2].
Coldwater, O. [24-124 A3].
—, Tenn. [24-117 E2]
—, lake, Ont., Can. [24-90 C2].
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—, **CHARLES T. H. DE** (Belg. writ.) 6-500b.
—, John (Brit.) work for Cornish mines 6-453d.
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Djarai (lang.) 2-781d.
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Djedong, Jav **12**-079d.
Djegoel (tool) **3**-208c.
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—, **WILLIAM** **7**-492a; Chesterfield **9**-508c; **9**-705d.
—, Ind. [**24**-127 B5].
Dodda Vasavanna (bldg., Dharwār) **12**-223b.
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Dodder, riv., Ire. [**24**-20 E3].
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—, Ark. [**24**-120 B1].
—, W.Va. [**24**-111 C2].
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—, O. [**24**-125 A4].
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—, co., Minn. [**24**-135 F7].
—, co., Neb. [**24**-129 H3]; **9**-754d.
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— Center, Minn. [**24**-135 F7].
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Dodgeville, Mass. [**24**-99 C2].
—, O. [**24**-124 E2].
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Dodman, pt., Eng. [**24**-17 B4].
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—, Tex. [**24**-122 D2].
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— (dice) **7**-329d.
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Dogba, W.Af. **6**-077c.
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DOG LICENCES **7**-501a.
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— salmon: *see* Keta.
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— -**TOOTH VIOLET** **7**-503b.
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—, dist., Sin kiang **20-715a.**
—, val., C.Asia **22-206a.**
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— -bani (Mesop. myth.) **1-118c**.
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Eadgils (Angel k.) **23-514b**.
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Eadgyth (Aethelred's d.) **7-964c**.
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Eadwig (Eng. k.) **7-954a**
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—, co., Colo. **[24-147 D2]**.
—, Alsk **[24-156 N4]**.
—, Colo **[24-147 D2]**
—, Ida. **[24-145 B6]**.
—, Mich. **[24-131 G7]**.
—, N.Y. **[24-102 B3]**
—, Wis. **[24-133 E7]**.
—, W.Va. **[24-111 B3]**
—, Ind., Ind. O. **5-188a**
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—, lake, Aroostook co., Me. **[24-96 D1]**.
—, lake, Calif. **[24-154 C2]**.
—, lake, Piscataquis co., Me. **[24-96 C2]**
—, lake, Sask. **[24-91 D3]**.
—, lake, Wis **[24-132 D1]**.
—, hills, Sask. **[24-91 D3]**.
—, mt., Ariz. **[24-140 D2]**.
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— Bay, N.Y. **[24-103 F2]**.
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— Bridge, N.Y. **[24-103 G3]**.
— Butte, Mont. **[24-144 C2]**.
— Butte, S.Dak. **[24-137 C1]**.
— Cliff, O. **[24-124 D2]**.
— field, airport, Elmhurst, Ill **3-377a**
— Flat, Tex. **[24-122 B4]**.
— foundry (Birmingham, Eng.) **18-230d**.
— **GROVE**, Ia. **[24-138 D2]**; **7-822d**.
— Harbor, Mich. **[24-130 C2]**.
— Harbor, N.Y. **[24-102 B2]**.
EAGLEHAWK, Austr. **[24-171 G6]**; **7-823a**.
Eagle Hill, Ky. **[24-116 F2]**.
— Hill, cr. Sask. **[24-91 E3]**.
Eaglehurst, Pa. **[24-106 A1]**.
Eagle Island, Oreg. **[24-151 J3]**.
— Lake, Me. **[24-96 D1]**.
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— Mills, O. **[24-125 C4]**.
— Nest, N.Dak. **[24-130 C3]**.
— **OWL 7-823a**, description and habitat **16-964a**.
— **PASS**, Tex. **[24-122 D5]**; **7-823a**.
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— Rock, Mo. **[24-140 D5]**.
— Rock, N.C. **[24-112 G2]**.
— Rock, Va **[24-110 E3]**.
— Rock, mt., Md. **2-125d**.
Eagles, Fraternal Order of **9-849d**
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Eaglesciffe, Eng. **[24-13 C3]**.
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— Nest, dam, N.Mex. **18-996b**.
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Eagletown, Ind. **[24-120 B2]**.
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—, Mo **[24-140 D1]**.
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Eaglewood, S.Dak. **[24-137 A2]**.
Eagonville, Ont **[24-90 D2]**.
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Eakles Mill, Md. **[24-108 B1]**.
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Ealaidh Ghaoil (Maclachlan) **20-187d**.
Ealdgyth (Edith) **11-213a**.
Ealdhune (Eng. bp.) **7-763b**.
Ealdorman (anc. Eng. off.) **6-597b**; **7-721b**; **20-564a**.
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— (Benedictine abbot) **19-820c**
— (of Bamburgh) **1-275c**.
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Ealhswith (Eng. q.) **1-568c**.
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Ea-mukin-zer (of Babyl.) **5-656b**.
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Eanfled (Brit. q.) **23-601b**.
Eanfrith (k. of Bernicia) **3-457a**.
Eanhere (of Hwicce) **11-954a**.
Eanmund (of Kent) **13-328a**.
— (Swed. prince) **21-641d**.
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Eared pangolin (zool.) **7-951b**.
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—, N.C. **[24-112 D2]**.
—, N.Dak. **[24-136 A2]**.
—, Wis. **[24-132 B4]**.
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EARLE, JOHN 7-828b.
—, Aiken co., S.C. **[24-113 C3]**
—, Williamsburg co., S.C. **[24-113 E3]**
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Earless seal (zool.) **14-751c**.
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—, N.C. **[24-112 H1]**.
—, O. **[24-124 A3]**.
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—, Va. **[24-110 G3]**.
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Earlville, Ill. **[24-128 D2]**.
—, N.Y. **[24-103 E3]**.
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—, John d' **1-946a**.
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ECLOGITE (petrol.) **7**-914c; cyanite **8**-915a; diamond **7**-319c, glaucophane **8**-915a.
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Ecommoy, Fr. [**24**-24 F4].
Econ. (abbrev.) **1**-24a.
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ECONOMIC ARTICLES (bibliog.) **7**-924a.
Economic Basis of Politics, The (Beard) **3**-257d.
Economic blockade **3**-735d fol.
— Conference of the Allies (Paris, 1916) **19**-807d.
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Economic entomology **8**-622a; **23**-476a.
— **FREEDOM** **7**-924b.
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Economic lag **1**-365b.
— **MAN** **7**-924c.
— ornithology **16**-033b.
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Fabian Essays **20**-892d.
— *Essays in Socialism* **9**-19d.
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— Maximus Servilianus, Q. **9**-20d
— **PICTOR, Q.** **9**-20d; **1**-979d; **19**-400c; **19**-599a
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— *of the Bees* (B. de Mandeville) **14**-792c.
Fables, Ancient and Modern (Dryden) **7**-688c.
Fables (Aesop) **1**-263b.
— (Arnault) **2**-418c.
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— *de Logmâ le sage* (Derenbourg) **14**-487d.
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—, **GEORG** **9**-23c
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—, **JOHANN A.** (schol.) **9**-23d, **19**-79b
—, **JOHANN C.** **9**-24a.
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Fabrique de romans (Mirecourt) **7**-725d.
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—, **JEAN B. J. 9-564c**; theory of functions **9-916b**; thermal conductivity **11-328a**; sound vibrations **21-7a.**
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Four Men, The (Belloc) **3-599d.**
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—, Nev. [**24**-153 C2].
Gold (pole vaulter) **18**-158a.
—, Max **11**-142c.
—, Tex. [**24**-123 E4].
—, cove, Nfd. [**24**-93 B2].
—, mt., Nev. [**24**-153 C5].
—, mt., Sum. [**24**-72 A2].
—, riv., N.S., Can. [**24**-88 E4].
—, riv., Vancouver I., B.C., Can. [**24**-92 D5].
— (fin.) arbitrage **2**-218d; **2**-138c; Brit. post-war **10**-696b, crown **16**-628d; penny **17**-485d, price **12**-469b; **13**-31a; World War **10**-691b; *see also* Money.
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—: **MINING AND METALlurgy 10**-481d, Alaska **1**-503d; Austr. **2**-710a, **2**-725a, Ballarat **2**-997c; Canada **4**-699c fol.; Colorado **6**-44d, **6**-47c; Colombia **6**-33a; **6**-36a; **6**-37c; cyanide process **6**-916a, distribution **10**-482a; **17**-873b; dredges Pl. fig. 1 and 2 **7**-DREDGERS AND DREDGING; Du.E.I. **7**-873b; Egypt **8**-48d; Gold Coast **10**-487b; Ireland **12**-617a; mercury fig. 8 **22**-110, production **17**-872d; Transvaal **22**-420c, **22**-420d, U.S. **22**-823b, Pl. IV. fig 3 **22**-UNITED STATES.
—: **PRODUCTION:** *see* Resources of the World, Natural.
Goldap, Ger. [**24**-40 F1].
Goldast, Melchior **11**-590a.
Goldau, Switz. [**24**-31 F2].
Gold Basin, Ariz [**24**-149 A3].
— Beach, Oreg. [**24**-151 A5].
GOLDBEATING 10-484b.
Gold beetle **12**-899b.
— Belt series (geol.) **22**-726d.
Goldberg (sci.) **23**-220b.
"Goldberg Variations" (Bach) **2**-870c.
Goldberg, Mecklenburg-Schwerin, Ger. **10**-485b.
GOLDBERG, Silesia, Ger. **10**-485a; **22**-498c.
Goldbug, Ky. [**24**-116 F4].
Gold Bug, The (Poe) **16**-50d.
Goldburg, Ida. [**24**-145 E5]
Goldbutte, Mont. [**24**-144 C1]
GOLD COAST, country, W. Af. [**24**-80 D4]; **10**-485b; **10**-486d; Accra **1**-105b; axeheads and quartz discs **1**-314b; cacao **5**-947a; defence **10**-682c; flora and fauna **10**-485d fol.; government **10**-487c; history **10**-488a fol; industries **10**-487a, pop **4**-175d; rys. **18**-920c.
Gold Regiment **7**-857d
— Creek, Mont. [**24**-144 B2].
— Creek, Nev. [**24**-153 E1].
GOLDCREST (GOLDEN Crested Wren) 10-489c.
Gold cyanide (chem.) **10**-481c.
— Democrats (U S) **14**-591a.
Gold Dust, La [**24**-121 B3].
—, Tenn [**24**-117 B2].
Gold dust (min.) **17**-991a.
— edging (bookbinding) **3**-860b.
Golden, Tom **10**-489d.
—, Ariz. [**24**-149 B5].
—, B.C. Can. [**24**-92 F4].
GOLDEN, Colo. [**24**-147 E2]; **10**-489c; industrial school **6**-46a fol.
—, Ida. [**24**-145 C4].
—, Ill. [**24**-128 A3].
—, Miss. [**24**-119 D1].
—, Mo. [**24**-140 D5].
—, N.C. [**24**-112 D2].
—, bay, N.Z. [**24**-172 D4].
—, lake, Can. [**24**-90 D2].
—, Order (Ger.) **13**-438b.
—, river, the, Belg.: *see* Lys.
— Acts (Scot.) **20**-164d.
— Age (myth.) **6**-747c.
"Golden Age," (Millet) **15**-409d.
— apples (myth.) **11**-530c.
Golden Argosy (mag.) **15**-966d
Golden Ass (Apuleius) **2**-152d; **13**-753c, **16**-572c.
Golden Berenice, Eritrea **8**-690c.
Goldenberg-Werk (power works) **19**-246b.
Golden Boke of Marcus Aurelius, The **3**-455c.
Golden Book, the (register, Venice) *see* Libro d'Oro.
Golden Bough, The (J. G Fraser) **9**-710a.
Golden Bowl, The (James) **1**-793b.
Goldenbridge, N.Y. [**24**-102 G4].
GOLDEN BULL (charter) **10**-489d, **8**-140a, **10**-489d **12**-371d; Brandenburg **4**-30b.
GOLDEN CALF (idol): *see* Calf, the Golden.
— Camp, Russ.: *see* Sir Orda.
— -capped sunbird **2**-877b.
— Century (lit.) **7**-772d
— Chersonese (anc geog.). *see* Malacca peninsula.
— Circle, Knights of the: *see* Knights of the Golden Circle.
— City, Mo. [**24**-140 C4].
— **CLUB** (plant) **10**-490b; Il. **10**-490.
— columbine (plant) **6**-78b.
— cress (plant) **6**-671a.
— **CRESTED WREN** (bird): *see* Goldcrest.
— -crowned water-thrush (bird) **16**-974d.
— currant (bot.) **10**-521d
Goldendale, Wash. [**24**-150 E5].
Golden Day, The (Mumford) **1**-794c.
— dynasty (Chin.): *see* Kin dynasty.
Golden Eagle, Ill [**24**-129 B5].
— eagle (bird) **7**-822c; Pl I. fig 13 **3**-BIRDS, falconry Pl. I. fig. 1 **9**-FALCONRY, female Pl. II. figs. 1, 2 **7**-EAGLE, male Pl. I. fig. 1 **7**-EAGLE; nest Pl. I. fig. 3 **16**-NEST.
— eagle (emblem): *see* Ampulla.
Golden ear-drops (plant) **7**-330c.
Goldene Aue, dist., Ger. [**24**-39 F2], **16**-487d.
Golden Era (publ.) **11**-225b.
Goldene Vliess, Das (Grillparzer) **10**-892d.
GOLDEN-EYE (bird) **10**-490b.
— flies. *see* Green lacewings.
Golden-feather (plant) **18**-796d.
Golden fig (plant) **9**-220d.
GOLDEN FLEECE (myth.) **10**-490b; **2**-333d; **10**-481d —, Order **5**-203a; **4**-407a, **16**-250b, **13**-436b.
Golden Gate, bay, Calif. **11**-182d.
— Gate, chan., Calif. [**24**-154 B4; **24**-188 B3]; **4**-590a.
— Gate (Constantinople) **6**-305c.
— Gate (Kiev, U.S.S.R.) **13**-375c.
— Gate (park, San Francisco) **19**-943c.
— Gate Canyon, Cal., U.S. view Pl. fig. 2 **6**-CONCRETE.
GOLDEN-GLOW (flower) **10**-490c.
Golden Grove, The (W. Vaughan) **23**-15d.
Golden Guernsey (milk) **5**-51c
— Heads (monastery, Kiev, U.S.S.R.) **13**-375d.
— Hill, Md. [**24**-109 C2].
"Golden Hind" (ship) **7**-575c.
GOLDEN HORDE (Tatars) **10**-490c; **15**-719c, *see also* Kipchak *and* Tatar.
— Horn, Constantinople Pl. I. fig. 2 **22**-TURKEY; Il. **6**-804.
— House (of Nero) **6**-52c; **12**-768a.
— Kite, Order (Jap.) **13**-440d.
— Knight (nick.): *see* Cromwell, Henry.
— Lake, Can. [**24**-90 D2].
— Lane, oil wells, Mex. **17**-664b.
— larch (tree) **13**-723a.
— League **3**-922c; **21**-686d.
— -leaved chestnut **5**-591b.
— leaves **17**-275a.
Golden Legend (Jacobus de Voragine) **10**-183b.
Legend (Longfellow) **19**-428a.
Golden Legion: *see* Golden Spur.
Golden Lion of Nassau, Order **13**-438c, **13**-439a
— Machet (bot.) **15**-462c.
— maidenhair (bot.). *see* Polypody.
Golden Meadows, The (Mas'udi) **22**-158b.
GOLDEN MOLE (zool.) **10**-490c, **14**-978c, **4**-779c, habitat **21**-47b.
— mound (Kerch) *see* Altun
— Mouth: *see* Bulgarus.
— number (chron.) **4**-570c.
— oat-grass **10**-668c fol.
GOLDEN ORFE (fish): *see* Orfe.
— oriole (bird) **16**-904a.
— pheasant (bird) Il. **17**-697a, **17**-697a
— plover (bird) **18**-83a.
— Pond, Ky [**24**-116 B4].
— pottery (Sp) **18**-346a.
— Queen (plant.) **15**-462c
— **RAGWORT** (plant) **10**-490d, Il. **10**-490d.
— rain (tree) *see* Laburnum
Goldenridge, Me. [**24**-96 D3]
Golden robin (bird): *see* Baltimore oriole
Goldenrod, Minn. [**24**-134 C4].
GOLDEN ROD (plant) **10**-490d, 1-4d
— **ROSE** (ornament) **10**-491a
— Rose (papal gift) **23**-6d.
— Rule (Confucius) **6**-239b.
Golden Rump, The (Fielding) **7**-603d.
Golden russet (apples) **9**-882a
— saxifrage (flower) **20**-30d
— Seal (dog) **6**-602d.
— seal (plant) **11**-961a.
— section (aesthetics) **1**-272b
— Spur, Order (papal) **13**-439b.
— Spurs of St. George (emblem) **6**-763c.
— State: *see* California, U S
— Stool (throne) **2**-505a.
— sulphide (chem.) **2**-68d
— Temple (Amritsar) **1**-851a
— Theatre, John (N.Y.C.) Pl. III. fig 8 **22**-THEATRE ARCHITECTURE.
Golden Threshold, The (Naidu) **16**-66c.
Golden Treasury of English Songs and Lyrics (Palgrave) **17**-145b
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— type (typog.) **18**-511a.
Golden Valley, N.Dak [**24**-136 C2].
— wattle (tree) **2**-711d.
— -winged flicker (bird) **9**-375d.
— woodpecker **23**-724d
Goldfaden, Der (Wiekram) **10**-222c.
GOLD FERN (plant) **10**-491b.
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GOLDFIELD, Nev [**24**-153 C5], **10**-491c; **16**-271a
—, S Dak. [**24**-137 B2].
Goldfields, Af. **19**-263d.
— of South Africa Company: *see* Consolidated Goldfields of South Africa, Ltd
Goldfield Water Supply System **13**-244c.
Gold-filling (indus.) **19**-256b.
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Gold Hill, Ala. [**24**-118 D3]
—, Colo. **6**-47c.
—, Nev. [**24**-153 A3].
—, Oreg. [**24**-151 B5].
—, Utah [**24**-152 A2]
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—, Ark. [**24**-120 D3].
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Goldschmidt, (biol.) 20-410c.
(pur.) 2-222d
, H. (chem.) 1-814d
—, **HERMANN** 10-493d.
—, Meir Aaron 7-34a.
—, Otto 2-875d, 14-148d
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— Bassam, Iv. Cst [**24**-80 D4], **12**-845b; rainfall **9**-831b.
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— (zool.) **23**-975d
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Grousset, Paschal **3**-840b
Grout, Vt [**24**-97 B3].
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Grouw, Holl [**24**-28 D1].
Groux, Charles de **17**-56b.
—, Henri de **17**-56c.
Grovania, Ga [**24**-114 C4].
GROVE, SIR GEORGE 10-918d.
—, Harriet **20**-484c.
—, Philip **4**-716d.
—, **SIR WILLIAM ROBERT 10**-919a, **3**-214d
—, Ill. [**24**-128 C3]
—, La. [**24**-121 A1].
—, Md [**24**-109 D2].
—, Me. [**24**-96 E3].
—, Okla [**24**-143 J2].
—, Pa. [**24**-106 C2].
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GROVE (trees) **10**-919a.
— Beach, Conn [**24**-101 C2].
— Center, Ky. [**24**-116 B3].
— City, Ill [**24**-129 C4]
— City, Minn [**24**-135 D6].
— **CITY**, Pa. [**24**-106 A2]; **10**-919b.
— City College **10**-919b.
— gas-battery **10**-919a.
Grove Hill, Ala. [**24**-118 B4].
Groveland, Ga [**24**-114 E4].
—, Ill. [**24**-128 C3].
—, Kan [**24**-142 E3].
—, Mass [**24**-99 C1].
—, N.Y. [**24**-102 C3].
Grove of Anykščiai, The (Baranauskas-Baronas). *see* Anykščių Šilelis.
Groveport, *O.* [**24**-125 C4].
Grover, F W. **11**-200d.
—, William O. **20**-407c.
—, Colo. [**24**-147 F1].
—, N.C. [**24**-112 I2].
—, Pa. [**24**-107 E2].
—, S.C. [**24**-113 D3].
—, S Dak. [**24**-137 G2].
—, Utah [**24**-152 C4].
—, Wyo. [**24**-146 B3].
— Hill, O. [**24**-124 A2].
Grovertown, Ind [**24**-126 B1].
Grover washer **14**-276c.
Groves, A N. **18**-93b.
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—, Tex. [**24**-123 G4].
—, Va. **4**-375b.
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Grovont, Wyo. [**24**-146 B2].
Grow, Tex. [**24**-122 D3].
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Growth and Structure of the English Language (Jespersen) **13**-8d.
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Grozneft (U S S.R.) **19**-739d.
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Grstanečvara (temple, Elūrā) **12**-223b.
Grunch **14**-548c.
Gruach (Bottomley) **18**-112c.
Grubb, Peter **130**-851b.
Grubbs, Del [**24**-109 D1].
—, Ill [**24**-129 C6].
Grubea limbata fig. 12B **1**-993.
Gruben, Switz [**24**-30 D4].
Grubenhagen, Ger. [**24**-38 E2].
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Grub Street Journal **14**-993c
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Grudziadz, Pol. [**24**-40 D2].
GRUDZIANZ, Pol **10**-923d.
Grue, Nor. [**24**-43 F6].
Gruel, Guillaume **2**-460b.
— (food) **16**-662b.
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— ap Cynan **23**-506a
— ap Davydd **23**-507b.
— ap Maredudd **23**-507b.
— ap yr Ynad Coch **23**-507a.
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—, Ellis (writ) **23**-508d.
—, Llewelyn ab: *see* Llewelyn ab Gruffyd.
— ap Conan **3**-106d.
— ap Cynan **23**-295d
— ap Llywelyn **23**-295c.
— ap Rhys **4**-852b
Grugru nut **16**-646b.
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Gruinard, bay, Scot. [**24**-18 C4]; **19**-562d.
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—, Karl **1**-875b.
—, Czech. [**24**-39 J4].
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—, Hesse-Nassau, Ger. [**24**-38 D3]
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Grundlov **16**-553c
Grundriss der Geschichte der Philosophie (J. E. Erdmann) **8**-681b.
— *zur Geschichte der deutschen Dichtung* (Goedeke) **10**-468a.
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—, **NIKOLAI F. S. 10**-924c; **7**-33c
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—, **SYDNEY 10**-924d.
—, co., Ia. [**24**-138 E2].
—, co., Ill. [**24**-128 D2].
—, co., Mo. **22**-457a
—, co., Tenn [**24**-117 F2].
—, Mo. [**24**-140 D1].
—, Va. [**24**-110 B3].
— Center, Ia. [**24**-138 E2].
— Junction, Wis. [**24**-132 D4].
Grundzüge der physiologischen Psychologie (Wundt) **18**-712d.
Grüne Gewölbe (Royal Palace, Dresden) **7**-647c.
Grüne Heinrich, Der (Keller) **10**-227d.
Grünenberg, Konrad **22**-327d.
Grünerite (min.) **1**-840c
Grünewald, Issac **17**-60a.
—, **MATHIAS** (Ger. paint.) **10**-925a.
— (battle): *see* Tannenberg.
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Gruplus, Walter **12**-489d.
Grupont, Belg [**24**-29 D4].
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— Piemontese **17**-832d fol.
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— (bird) **6**-634d.
— americana: *see* Whooping crane.
— australis: *see* Native companion.
— canadensis: *see* Brown crane.
Grüsch, Switz. [**24**-31 H3].
Grushevka, U.S.S.R. [**24**-49 F5].
Grusinian version (N.T.): *see* Georgian version.
Grus mexicana *see* Sandhill crane.
GRUTER (GRUYTERE) JAN 10-925b.
GRUYERE, dist., Switz. **10**-925c
—, Switz. [**24**-30 C3]; **10**-925c.
Gruyère (cheese) **5**-335c.
GRUYTERE, JAN: *see* Gruter.
Gruz, Yugos. [**24**-52 C3].
Gruzia, rep., U.S.S.R.: *see* Georgia.
Grybów, Pol. [**24**-40 E4].
Grygla, Minn. [**24**-134 C3].
Gryle, lake, Scot. **10**-862a.
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Gryllus (Plutarch) **18**-91b.
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— domesticus: *see* House cricket.
GRYNAEUS, SIMON 10-925c.
Gryon, Switz. [**24**-30 C4].
Gryparis, John **10**-847c.
Gryphaea angulata: *see* Portuguese oyster.
GRYPHIUS, ANDREAS 10-925d; **10**-923a.
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Grypskerk, Holl. [**24**-28 E1].
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Grythyttehed, Swed. [**24**-45 F2].
Gschnitz glaciation **5**-825c.
Gseprey, Hung. [**24**-50 E3].
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GSTAAD, Switz. [**24**-30 C4]; **10**-926a.
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Gtébokle, Pol. [**24**-41 H1].
Guacamayo, mts., Ec **1**-903d.
GUACHARO: *see* Oil-Bird· *see also* **23**-50d.
Guáchipas, riv., Arg., S.Am. **18**-43c.
Guacipati, Venez. [**24**-162 E2].
GUACO 10-926a.
GUADALAJARA, prov., Sp. [**24**-33 E2]; **10**-926b; **4**-990a, b
GUADALAJARA, Mex. [**24**-158 D3], **10**-926c
GUADALAJARA, Sp. [**24**-32 E2]; **10**-926c.
Guadalaviar, riv., Sp. [**24**-33 F3]; **22**-943d.
Guadalcanal, isl., Pac.O. **20**-954a
Guadalcanar, isl., Pac.O. **17**-8d.
Guadalcázar, dist., Mex. **19**-951a.
—, Mex. [**24**-158 D3].
Guadalete, riv., Sp. [**24**-32 D4], **4**-512c fol.
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Guadalhorce, riv., Sp. **14**-705a.
Guadalimar, riv., Sp. [**24**-33 E3]; **10**-927a.
Guadalmedina, riv., Sp. **14**-705b.
Guadalmez, riv., Sp. [**24**-32 D3]
Guadalope, riv., Sp. [**24**-33 F2], **7**-882c
GUADALQUIVIR, riv., Sp [**24**-32 D4; **24**-178 D8]; **10**-927a, **6**-427d; irrigation **12**-691c.
—, Azores **2**-830a.
—, estuary **19**-950c.
Guadalupe, co., N.Mex. [**24**-148 E4].
—, co., Tex. [**24**-123 F5].
—, Calif. [**24**-155 C5].
—, Mex. [**24**-158 D3]; **15**-396d.
—, N Mex. [**24**-148 E4].
—, ft., Mex **18**-753d
—, mt., Tex [**24**-122 B4].
—, mts., N Mex. [**24**-148 E6; **24**-188 E4]; **4**-879c; **16**-716d
—, mts., Sp. [**24**-32 D3]; **8**-743b.
—, riv., Tex. [**24**-123 F5; **24**-189 C5]
Guadalupe Hidalgo, Treaty of **22**-803a; **19**-902a; **16**-270c
— y Calvo, Mex. [**24**-158 C2].
Guadalupita, N.Mex. [**24**-148 D2].
Guadarrama, mts., Sp. [**24**-32 D2, **24**-178 D7]; **20**-281a.
—, riv., Sp [**24**-178 D7].
— squirrel **21**-114c
Guadeloupe, isls., Leeward Is., W I. [**24**-157 F3].
GUADELOUPE, dist., W I. **10**-927a; **13**-869b, **20**-395b; population **16**-501a trade union statis. **22**-389d.
Guadeloupe to St. Nazaire (s.s. route) [**24**-22 B3].
Guader, Ralph de, earl of Norfolk: *see* Ralph de Guader.
GUADET, MARGUERITE E. 10-927d.
GUADIANA, riv., Sp. [**24**-32 D3; **24**-178 D8]; **10**-927d, **8**-743b.
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— Bajo, riv., Sp **10**-928a
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GUADIX, Sp. [**24**-32 E4]; **10**-928a.
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GUADUAS, Colom. **10**-928b.
GUAHIBAN (people) **10**-928b.
GUAIACOL (chem.) **10**-928b; **5**-27a; **7**-326c.
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Guaiaco-phosphal **5**-27a.
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—, **JEAN B. C. E. 10-969c.**
— de Gellone, St.· *see* Guillaume d'Orange
— **DE LORRIS 10-969c.**
— **DE PALERNE 10-969c.**
— **D'ORANGE 10-969d.**
- de Villehardouin **21-172d.**
— -Luxembourg (ry.) **14-503c.**
- of Toulouse **5-251c.**
Guillaumes, Fr. [**24-27 K3**].
GUILLAUMIN, ARMAND 10-969b.
Guillem de Cabestanh: *see* Cabestanh.
GUILLEMOT (bird) **10-970d**; **2-690d**; **14-385b**, **8-6a**; **8-26c** fol.; nest **16-243a**, **19-3b**
Guillerias, dist., Sp **3-102d.**
Guillestre, Fr. [**24-27 K3**].
GUILLOCHE (arch.) **10-970d.**
Guillone, Abbé **4-97b.**
GUILLON, MARIE NICOLAS Sylvestre 10-970d.
Guillon, Fr. [**24-25 K4**].
Guillotin, Dr. **10-971b.**
GUILLOTINE 10-971a; parliamentary **17-323b**
Guilt **2-142b**; **12-393a**; **6-712a.**
Guimarães, Edward, duke of· *see* Edward, duke of Guimarães.
GUIMARAES, Port. [**24-32 B2**]; **10-971c**
Guimaras, Isl., P.I. [**24-73 B3**].
Guimaras, str., P.I. [**24-73 B3**].
GUIMARD, MARIE MADELeine 10-971d
Guimauve (bot.): *see* Marshmallow.
Guimerá, Angel **21-163a.**
Guimet museum **17-291b**, **22-185c** fol
Guimi, Fr.W.Af. [**24-80 B2**].
Guimillau, Fr. **4-630a**
Guin, Ala. [**24-118 B2**].
Guinu, falls, Af. **20-327c.**
Guinan, P.I [**24-73 C3**].
Guinand, P **10-419d**
Guinare, Ky [**24-116 H3**].
Guinart, Roque **4-140d**
GUINEA, region, Af. **10-971d**; **9-178c**, **16-614c**
—, Va. [**24-110 G2**]
—, gulf, Atl.O. [**24-76 C5**; **24-185 D5**]
GUINEA (coin) **10-972b**, spade **21-108d**; Pl IV fig 15 **16-**NUMISMATICS.
- Cabral, Gulf, Braz **4-56c.**
Guinea corn: *see* Indian millet.
Guinea current **2-636d.**
GUINEA-FOWL 10-972c.
— goat **10-457b.**
Guinea grains *see* Grains of Paradise
Guinea grass **10-656d**; **15-500d**, **17-184c.**
— green B (dye) **7-806a.**
Guinea pepper, *see* Cayenne pepper.
GUINEA-PIG 10-972d; *see also* Cavy
— -squash *see* Egg-plant.
- trade **20-561c**
GUINEA-WORM (disease) **10-972d**; **17-270a**
Guinée Française· *see* French Guinea
Guinegate, Fr. **3-239a**
Guines, comte de **14-883a**
GUINES, Cu [**24-157 B2**]; **10-972d**, **6-883d**
Guines, Fr [**24-24 G1**]
Guinevere (Tennyson) **21-940c.**
GUINGAMP, Fr. [**24-25 B3**]. **10-973a**
Guinicelli, Guido **12-739b**
GUINNESS (fam.) **10-973a.**
—, Sir Arthur Edward, baron Ardilaun *see* Ardilaun
, Edward Cecil, earl of Iveagh *see* Iveagh.
GUINOBATAN, dist., P.I. **10-973b**
Guion, Ark. [**24-120 D2**].
, Ind. [**24-120 A3**].
—, Tex. [**24-123 E3**].
Guiot de Provins **6-176b.**
Guipavas, Fr. [**24-25 A3**].
Guipure (lace) **13-568c.**
GUIPUZCOA, Prov., Sp. [**24-33 E1**]; **10-973b**; **3-185a**; dialect **3-184d.**
Guira (ornith.) **6-844d.**
Güiraldes, Ricardo **21-150b.**
Guiraut de Bornell **18-639a.**
— de Calanson **22-490a**
— de Riquier **22-490a** fol.
Guiriri, riv., Braz. [**24-163 B3**].
Guiroga, Horacio **21-150c.**
Guisane, riv., Fr. [**24-27 K3**], **7-751b.**
Guisards: *see* Mummers.
Guisarme: *see* Glaive.
GUISBOROUGH (GUISborough), Yorks., Eng. [24-13 C3]; 10-973d.
Guiscard, Robert: *see* Robert Guiscard
Guiscard, Fr. [**24-25 J2**].
GUISE, HOUSE OF 10-973d, **19-112b**; genealogy **10-976.**
—, Anne d'Este, duchess **10-974c.**
—, Catherine of, duchess Montpensier: *see* Catherine (Guise).
—, Charles, 4th duke **10-977c**
—, Charles of Lorraine, duke **13-100b.**
—, Claude (Lorraine), 1st duke **10-974a.**
—, Elizabeth, duchess **16-909b**
—, Francis (Lorraine), 2nd duke **10-974b** fol., **16-910d**, Metz **9-621d** fol.
—, Henry (Lorraine) 3rd duke **10-975c** fol
—, Henry, 5th duke **10-977c.**
—, Louis, 2nd card.: *see* Louis, 2nd card. of Guise.
—, Louis Joseph, 6th duke **10-977c.**
—, Marie (Lorraine), duchess **10-977c**, *see also* Guise, Fr.
GUISE, Fr [**24-25 J2**], **10-973d.**
— (battle, 1914) **9-873a**; **13-706d**; **10-973d**, **23-753d.**
—, ft., Fr. **9-865a.**
Guiseaux, Fr. [**24-27 J1**].
Guiseley, Eng. [**24-14 B2**].
Guiseppe del Gesù· *see* Guarneri, Giuseppe.
Guise rebellion **13-13d.**
Guisisil, volcano, Nic. [**24-159 G3**]
Guist, Eng [**24-14 D3**].
Guisto da Gnanto: *see* Justus of Ghent
GUITAR 10-977d, **5-727a**; **21-475a**
Guitar, English (instru.): *see* Cittern.
GUITAR FIDDLE 10-978a, **23-176c**
Guitar violoncello, *see* Arpeggione.
Guiteau, C. J. **10-25b.**
Guitres, Fr [**24-26 C2**].
GUITRY, LUCIEN G. 10-978b.
— **SACHA 10-978c**
GUITTONE D'AREZZO (It. poet) **10-978c**, **12-739c**; sonnet rules **20-997d**
—, Fra, *see* Guido of Arezzo
GUIZOT, FRANCOIS P. G. 10-978c; Louis Philippe **9-647a**; Orléanists **16-908a**; Palmerston **7-863d**
Guizot, Maurice G. (Fr. au.) **21-757a.**
GUJARAT, dist., India [**24-67 B2**], **10-980a**; arch **12-223b** art **12-217d**; Bombay **3-832c**, philol. **12-240d.**
GUJARATI AND RAJASthani Languages 10-980b, **12-239b**, Parsees **17-339d**, Sindhi and Lahnda **20-708c**
Gujari (dialect) **16-541d.**
Gujari Mahall (palace, Gwalior) **12-224c.**
Gujars (Indian tribe) **18-773b**
GUJRANWALA, Punjab, India [**24-65 C2**], **10-981c.**
GUJRAT, Punjab, India [**24-65 C2**], **10-981c.**
Gujrat (Gujarat) (battle, 1849) **7-546c**; Sikh war **20-651c.**
Gul, riv., Nor. [**24-42 E5**].
GULA (myth.) **10-981d**; **2-858b**
— (zool.) **12-407a.**
Gulabi Bagh (gardens, Lahore) **13-289a.**
Gulab Singh (raja of Jammu) **18-774a**; **13-290d** fol.
Gulampaia, mts., Arg. **5-22b.**
Gulapo, Tanganyika Terr. [**24-83 G3**].
Gulargambone, N.S.W., Austr. [**24-171 J3**].
GULBARGA, India [**24-67 C3**]; **10-982a.**
Gulbin, riv., Nig. [**24-80 F3**].
Gulbransson, O. **4-950d**; Pl. II. fig. 4 **4-CARTOON.**
Gülch, Ger.: *see* Jülich.
Guldberg, Frederik H. **1-898a.**
Guldborg, Den. [**24-46 D4**].
—, fjord, Den. [**24-46 D4**].
GULDEN (Du. coin) **10-982b**; **11-654b**; **5-121d.**
— (Ger. coin) **7-507a.**
Güldenes Schatzkästlein der Kinder Gottes (Bogatsky) **3-778c.**
Guldenmann, Catherine: *see* Kepler, Catherine G.
Gulder (tide) **8-480b.**
Guldin, Paul (math.) **17-241a.**
Guldinus (math.) **15-254a.**
Guldinus' Theorems (math.) *see* Pappus, Theorems of.
Gule, mt., Af. **1-312a.**
Gulek Boghaz, pass, Asia M.: *see* Cilician Gates.
Gulen, Nor. [**24-44 A1**].
Guler, Wash. [**24-150 D5**].
Gules (heraldry) **11-467b.**
Gulf, co., Fla. [**24-115 C2**].
—, N.C. [**24-112 F2**].
—, W.Va. [**24-111 B4**].
—, Isl., Me. **2-667d.**
— (geog.) **16-681a.**
— Coast lines (rys.) **15-614c.**
Gulfcrest, Ala. [**24-118 A4**].
Gulf Crossing, La. [**24-121 B1**].
GULFPORT, Miss. [**24-119 C5**], **10-982c.**
Gulf Ports, dist., Pers. **9-100d**, **14-162c.**
—, Ports, dist., U.S. **23-728d.**
— **STREAM** (N. Atl. current) **10-982d**; **2-636c.**
— Stream drift (physiog.) **2-636d.**
— Summit, N.Y. [**24-103 E3**].
GULFWEED (seaweed) **10-982d**; **2-630d**; **19-998c.**
Gulgong, N.S.W., Austr. [**24-171 J4**].
Gulhané - hatti - humayouni (Turk. decree) **22-609a.**
Gulhaneh, Hatti-i Sherif of (Turk.) **2-379b.**
Guli, mt., Arab. **11-119b.**
Gulliche, Ger. *see* Jülich.
Gullelmus Peregrinus **18-106a.**
Gullmin, Mor. [**24-78 C2**].
Gullstan, India [**24-65 B2**]; **19-916c**; Peace of (1813) **5-58a**; **17-594b.**
Gulistán (Sa'dí) **19-807a.**
Gullitfash· *see* Kullitfash.
Gulja, China *see* Ili
Gulkana, Alsk. [**24-156 M5**].
Gul Koh, mts., Asia **13-236a.**
Gull, Sir William **16-55d.**
—, cove, Nfd. [**24-93 D3**].
—, Isl., Avalon Penin., Nfd. [**24-93 D3**].
—, Isl., Lake Michigan, Mich. [**24-130 F4**].
—, Isl., Lake Superior, Mich. [**24-130 C1**].
—, Isl., Notre Dame Bay, Nfd. [**24-93 C2**].
—, lake, Can. [**24-91 C3**].
—, lake, Can. [**24-91 H2**].
GULL (sea-bird) **10-982d**; Pl. I. fig. 10 **3-BIRDS**; Pl. II. figs. 1-6 **9-FLIGHT**; **8-26b**, d; Pl III. **17-PHOTOGRAPHIC ART.**
GULLAH (negro tribe) **10-983a.**
Gullane, Scot. [**24-12 B1**].
Gullewa, W. Aus., Austr. [**24-168 B4**].
Gulley traps **19-946d.**
Gulling, Oreg. [**24-151 H2**].
Gulliver, Mich [**24-130 E3**].
Gulliver's Travels (Swift) **8-589c.**
Gullogherboy, mt., Sligo, Ire. **20-790d.**
Gull's disease: *see* Myxoedema
Gull's Hornbook, The (Dekker) **7-146c.**
GULLSTRAND, ALLVAR 10-983b, **3-586c.**
Gully James M. (Brit. hydropathist) **11-696d.**
GULLY, JOHN 10-983c.
—, Minn. [**24-134 C4**].
Gulo: *see* Wolverene.
Gulo luscus: *see* Glutton.
Gulose (chem.) **4-832a.**
GULPAIGAN, prov., Pers. **10-983c.**
Gulpen, Holl. [**24-20 D4**].
Gulsh, Nfd. [**24-93 C3**].
Gulu, Ugan. [**24-83 F2**].
Gum, Ill. [**24-129 D5**].
— (bot.) **18-35c.**
— (wood): *see* Satin walnut.
G.U.M. (U.S.S.R. trading corp.) **19-709a.**
Guma, Fr. W. Af. [**24-80 B2**].
—, Sin-Kiang. [**24-68 B4**].
Gum acacia: *see* Gum arabic.
Gum accroides (chem.) **19-211a.**
Gumach Dagh, mt., Turk. As. **8-394a.**
Gumal, riv., Afg.: *see* Gomal.
GUM AMMONIAC: *see* Ammoniacum.
— **ARABIC 10-983c.**
Gumbad-i-Kabus, Pers. [**24-63 D1**].
Gumbai Uchuia (fan) **9-65b.**
Gumbardo, Queens., Austr. [**24-169 B4**].
Gumbari, Bel. Cong. [**24-83 E2**].
GUMBEL, KARL W. VON, baron (Ger. geol.) **10-983c.**
GUM BENJAMIN: *see* Benzoin.
Gum-Bichromate process (phot.) **17-831b** fol.
GUMBINNEN, Ger. [**24-40 F1**]; **10-983d.**
Gumbo, S. Dak. [**24-137 B2**].
—, plains, Neb.: *see* Pierre Shale, hills.
GUMBO (plant) **10-983d.**
— (soup) **21-38c.**
Gumbu, Fr. W. Af. [**24-80 C2**].
Gum-cistus (plant) **8-743b.**
Gumel, Nig. **13-294a.**
Gumeucestre, Hunts., Eng.: *see* Godmanchester.
Gumenek, Turk. **6-89d.**
Gumeri (Af. tribe) **21-865d.**
Gumma (path.) **22-282a.**
—, prefecture, Jap. **12-915d.**
Gummata (tumors) **23-43a.**
Gümmenen, Switz. [**24-30 C3**].
Gummere, F. B. **2-994c.**
Gummersbach, Ger. [**24-38 C2**].
Gummi, Nig. [**24-80 F3**].
GUMMIC ACID: *see* Arabic acid.
Gummite (min.) **17-970a.**
Gum Neck, N.C. [**24-112 J2**].
Gumo, Nig. [**24-80 E3**].
Gum resins: *see* Myrrh.
GUMS (chem.) **10-984a.**
Gum senegal (chem.) **12-361a.**
— Springs, Ala. [**24-118 C1**].
— Springs, Ark. [**24-120 B3**].
GUMTI, riv., India [**24-163 F3**]; **10-984d**; Bareilly **3-107d.**
Gum tragacanth **21-1002a.**
— trees: *see* Eucalyptus.
GUMULJINA (KOMOTINA), Gr. [**24-55 D2**], **10-984d.**
GUMUS (Af. tribe) **10-984d.**
GUMUSH KHANEH, Turk. As [**24-59 H2**]; **10-984d.**
Gum-waste (silk) **20-674b.**
Gumwhinton, Eng. [**24-13 B3**].
GUN (weapon) **10-985a**; air-gun **1-457b**; armour **2-394a**; arquebus **2-426c**; construction **16-860a**; fog signal **14-100c**; long-range **2-470b**, naval **5-918b** fol.; smooth-bore period **16-857a**; *see also* small arms.
— (Jap. administrative division) **12-916a.**
—, laying the (mil.) **20-635c.**
GUNA, India [**24-67 C2**]; **10-988a.**
Guna, mt., Aby. **1-70c** fol.
Guna (philos.) **12-251b.**
Gun and Pistol **12-561b**; **20-802b**; Maxim silencer **15-118b**; sport **1-827d.**
Gunboats **10-690a**; **23-777b.**
Gunbower, co., Vict., Austr. [**24-170 F5**].
Gunby, Frank M. **21-40c.**
Gun camera (phot.) **17-805a.**
Gun carriage (mil.) **16-866b.**
GUNCOTTON 10-988a; **3-987c** fol.; Sir F. A. Abel **1-32b.**
Gunda, Kenya [**24-83 G3**].
Gundagai, N.S.W., Austr. [**24-171 J5**]; **16-831d.**
Gundahar (k. Burgundy) **23-793b**; *see also* Gunthacarius.
Gundam, Fr. W. Af. [**24-80 D2**].
Gundelach, Frans **10-408c**; Pl. VI. fig. 6 **10-GLASS.**
Gundelfingen, Ger. [**24-38 F5**].
Gundelfinger, Siegmund 14-303b.
Gundelsheim, Ger. [**24-38 E4**].
Gunder Booka, co., N.S.W., Austr. [**24-171 G2**].
Gunderic (of Burgundy) **4-406a.**
Günderode, Karoline von **2-420c.**
Gunderup, Den. [**24-46 C2**].
Gundi (animal) fig. 1 **9-937.**
Gundibald (of Burgundy) **4-406a.**
Gundicar (of Burgundy): *see* Gundahar.
Gundioc (Burgundian k.) **5-851b.**
Gundis (rodent) **19-374d.**
Gundisalvi, Dominicus **2-191b.**
Gundlakamma, riv., India **11-6b.**
Gündlingen, Ger. **2-254d.**
Gundobada, lex: *see* Burgundionum, lex.
Gundobald (Burgundian prince) **5-851b**; *see also* Gundibald.
Gun dog (animal) **20-569b.**
GUNDULIC IVAN (Serb poet) **10-988b.**
Gundulph (bp. of Rochester) **8-448a**; **19-363a.**
Gun fire **2-473d.**
Gun Forging Pl. I. **18-ORDNANCE.**
Gunga (drug) **11-421b.**
GUNG'L, JOSEPH (Hung comp.) **10-988c.**
Gungunyana (chief) **10-82c.**
Gungunyana's Ford (S. Af.) **14-136b.**
Gun Hill Road, N.Y. [**24-104 E2**].
Gunib, U.S.S.R. **6-973c.**
Gunig su, riv., Mesop. **8-817b**
Gunisao, lake, Man., Can [**24-91 G3**].
—, riv., Can. [**24-91 G3**].
Gunja (drug): *see* Bhang.
Gunji Sanglin (Jap. army) **12-921d.**
Gunkel, H. **18-663a.**
Gunlaying (mil.) **16-870b.**
Gunlock, Utah [**24-152 A5**]
Gunma, prefct., Jap. [**24-75 L5**].
Gunmaker's formula (fire arms) **16-862a.**
Gunmaking (craft) **10-986b**
GUN-METAL (alloy) **10-988d**; **4-240a.**
Gunn, Mrs. Aeneas **2-739b.**
—, M. **2-616a.**
—, William **2-470d.**
—, Minn. [**24-134 E4**].
—, Wyo. [**24-146 C4**].
— City, Mo. [**24-140 C3**].
Gunnar (Burgundian k.) **20-646c**; **16-408a**, *see also* Gunther.
Gunnbjörn skerries (Viking geog.) map **1-750.**
Gunnbjörnskier, Isls., Atl. O **2-200b.**
Gunnbjörn Ulfsson (Norse navig.) **2-200b.**
Gunnedah, N.S.W., Austr. [**24-171 K3**]; **16-831d.**
Gunnell Hall (Cambridge, Eng.): *see* Gonville and Caius College.
Gunnel loading (mil.) **4-140c.**
Gunner (mil.) **2-404c.**
Gunnersbury park, Mdx., Eng **7-823b.**
Gunners quadrant **21-823a**
GUNNERY, NAVAL 11-1a.
Gunning, Elizabeth, duchess of Hamilton: *see* Argyll.
—, Austr. [**24-171 J5**].
Gunnislake, Eng. [**24-17 B4**]
Gunnison, co., Colo. [**24-147 D3**].
—, Colo. [**24-147 D3**].
—, Miss. [**24-119 B2**].
—, Utah [**24-152 C3**].
—, isl., Utah [**24-152 B1**].
—, riv., Colo. [**24-147 B3**]; **6-43b** fol.
Gunnison (tunnel, U.S.) **22-567d.**
Gunnlaug (Ice. poet) **12-49b**
Gunnlaug Serpents-Tongue. The story of (saga): *see* Gunnlaugssaga Ormstungu
Gunnlaugssaga Ormstungu (Ice. lit.) **19-813a.**
Gunn Memorial library (Washington, Conn.) **15-941a.**
Gunomys (rodent genus) **19-374a.**
Gunong (mt.), e.g. Gunong Batu Puteh, Gunong Tahan, etc.: *see* Batu Puteh, Tahan, etc.
— Api, Isl., Dutch East Indies [**24-72 E5**]; **3-22c.**
— Tahan (reserve, Mal Penin.) **10-6c.**
GUNPOWDER 11-3b; engine fuel **12-496d**; charcoal **5-244b**; fortification **9-527a**; mil. tactics **21-744c.**
— Falls, riv., Md. [**24-109 C1**].
GUNPOWDER PLOT (1605. Eng.) **11-4d**; Digby **7-874a.**

Garnet 10-27d; Guy Fawkes 9-125b; Monteagle 15-754b; R. Catesby 5-30a.
Gun Seu (fan) 9-65c.
Gunshot wounds 23-800b.
Gun sight (mil.) 16-870b.
Gunsteinsson, Berg 12-54a.
Gunstett, Fr. 23-798a fol.
Gunta Alamat (Bor. bells) 4-284d.
Guntakal, India [24-67 C3].
Gunten, Switz. 22-168b.
GUNTER, EDMUND (Eng. math.) 11-5c.
—, Oreg. [24-151 B4].
—, Tex. [24-123 F3].
Gunter, the (math.): *see* Gunter's scale.
Gunter's chain (surveying) 11-5d.
Günter-Schultze (phys.) 8-260c fol.
Guntershausen, Ger. [24-38 E2].
Gunter's line (math.) 11-5d.
— quadrant (math.) 11-5d.
— scale (math.) 11-5d.
Guntersville, Ala. [24-118 C1].
Gunthacarius (Burgundian k.) 10-255b.
Gunther (Burgundian k.) 20-646c; 16-408d; *see also* Gunnar.
— (myth.) 23-317a.
— JOHANN CHRISTIAN 11-5d
— OF SCHWARZBURG (Ger. k.) 11-5d.
Gunthigis (chief) 13-149c.
Guntown, Miss [24-119 D1].
GUNTRAM (k. of Burgundy) 11-6a, 9-710b; 5-845d.
Guntram (the Rich) 11-56d fol.
Guntram (opera, Strauss) 21-464c.
GUNTUR, India [24-67 D3], 11-6a.
Guntz, A.N. 12-647d.
Günük, Asia M.: *see* Xanthus.
Gunung Agung, etc. (mts.): *see* Agung, etc., Gunong.
— Sugi, Sum. [24-72 C4].
Gunzenhausen, Ger. [24-39 F4]
Gunz glaciation (geol.) 5-825c
Günz Mindel stage (geol.) 12-474a; 5-825c.
Gunz stage (geol.) 12-473d.
Guðmundsson, Valtýr 12-56a.
Guorthigirnus (k., Britons): *see* Vortigern
Guð run: *see* Kriemhild.
Gupis (ft., India) 10-352a.
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GUPTA, SIR KRISHNA G. (Indian states) 11-6b.
—, Samarandranath 12-218d
— (Indian dynasty) 12-187b; arch 12-222c; art 12-216b; Ne-Muni founded 16-223b.
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Gur, Pers.: *see* Firuzabad.
GURA, EUGEN 11-6b.
—, mt., Bor. [24-72 E3].
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Gurahones, Rum. [24-53 B2].
Gurais, India [24-65 C2].
Gurno, Fr. Equat. Af. [24-82 C1].
—, Fr. Sud. [24-80 D2].
Gurapay, riv., Bol. [24-162 E7].
Gurara, oases, Alg. [24-78 E3, 24-184 D3]; 19-816d.
— Schkha of, lake, Sah. [24-78 D3].
Gurban Sal khan, mts., Mong. [24-68 G3].
Gurda (Kurds): *see* Kurds.
Gurdan, Ark. [24-120 B4].
Gurdane, Oreg. [24-151 F2].
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Gurha, India [24-65 C3].
Guriev, U.S.S.R. [24-49 H5].
Gurjara (dynasty) 3-834d.
Gurjistan: *see* Georgia U.S.S.R.
Gurjun balsam: *see* Wood oil.
GURKHA (Hindu caste) 11-6d; knife: *see* Kukri.
GURKO, OSSIP V. 11-6d.
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—, Neb. [24-130 B3].
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HITTITES 11-598d; 17-124d, 11-604d; archae. **11-599c, 12-263c; 12-395a; 22-589c,** arch. **23-526b;** Armenia **2-378b;** art **11-608a;** Asia Minor **2-538c,** Babylonia **2-529d;** civilization **11-606a,** Egy. relations **8-73d** fol.; **17-125a** fol.; Lydia **14-516a;** Mesop **15-295b;** Phrygians **17-852a** fol; Preria **18-723b,** religion **11-606c;** Trojans **22-504b.**
— (lang.) **2-235a; 6-867c** fol.; **11-600c** fol.; **11-853c.**
— expedition **4-80d.**
HITTORF, J. W. 11-608d; 8-193c; 8-191a; 8-238b; 8-249c; 8-267d fol.; **8-318a** fol.
HITTORFF, JACQUES IGnace 11-609a.
HITZACKER, Ger. **11-609a.**
HITZIG, FERDINAND 11-609a.
Hiuan-yuan **6-175a.**
Hiuen Tsang **19-1001c.**
HIUNG-NU 11-609b; 11-916a; 22-624a; *see also* Huns.
Hiva Oa, isl., Pac.O. **17-15c.**
Hive, movable-comb **8-308a.**
Hive, W.B.C. **8-308d.**
Hive-bee: *see* Honey-bee.
Hiver qui vient Dimanche, L' (Laforgue) **13-501d**
Hives **1-650c; 9-286a; 16-253c;** urticaria *see* Nettlerash.
Hiwasa, Jap. **[24-74 J7].**
Hiwasse, Ark. **[24-120 A1].**
—, riv., N.C. and Tenn. **[24-112 A2, 24-117 G2]; 21-937d.**
Hiwassee, Ga. **[24-114 C2]**
Hiwen T'Sang: *see* Hsüan Tsang.
Hiwood, Minn. **[24-134 C3].**
Hixon, Kan **[24-142 A3]**
—, Wis **[24-132 D4]**
Hixson, Tenn **[24-117 F2]**
Hixton, Wis. **[24-133 B5]**
Hiyaka-me (weight) **15-140a.**
Hiyak-kin (weight) **15-140d.**
Hiyya (rabbi) **21-770c.**
Hizen, prov., Jap. **12-895d, 12-940d**
Hizzāq Emūnah (Isaac of Trokt). see Faith Strengthened.
Hjälmar, lake, Swed. **[24-45 F2], 21-636d.**
Hjarbock, Den. **[24-46 B2].**
Hjelm, isl., Den **[24-46 C2].**
Hjelms, bay, Den **[24-46 E1].**
Hjerm, Den. **[24-46 A2].**
Hjerting, Den **[24-46 A3].**
Hjo, Swed. **[24-45 F2].**
HJORRING, Den **11-609b.**
Hjorth Haven, Spitsbergen **21-250b.**
Hjort, Johan **9-302b, 16-67c.**
Hjortø, Knud (writ.) **7-35b.**
H J S (abbrev.) **1-24d**
HKAMTI LONG, states, Burma **11-609b**
H.K.T.: *see* Society of the Eastern Marches
hl. (abbrev.) **1-24d.**
Hlaford (offl.) **1-949a**
Hlidaforda, Dev., Eng.: *see* Lydford.
Hlide, Kent, Eng *see* Lydd.
Hlinka, Father **6-961b**
Hlobane, mt., Zululand **23-993a**
Hlohovec (Gdlgocz), Czech **[24-51 E2]**
HLOTHHERE (k) **11-609c, 13-327d**
Hlubočep, Czech. **[24-39 K3]**
H M. (abbrev.) **1-24d,** *see also* His Majesty
H moll (mus.) **2-833c.**
H.M.S. (abbrev.) **1-24d**
H M S Pinafore (Gilbert and Sullivan) **21-537b**
Hnēs, Egy.: *see* Heracleopolis Magna
Hnm-f (title) **17-689b.**
Ho (astron.) **2-582a.**
—, An-hwei, China **[24-70 C3].**
—, Szechwan China **[24-69 H5].**
—, Togo **22-268a**
— (chem.): *see* Holmium.
— (garment) **7-656a**
— (lang.) **2-781d.**
Hoa Binh, Fr I C **[24-71 C1].**
Hoadley, Pa **[24-107 F2]**
HOADLY, BENJAMIN 11-609c; 2-976c; 3-32b, 6-359c; 8-170c.
Hoagland, Ind **[24-126 D2].**
—, Neb **[24-139 D3].**
Hoaglin, Oreg. **[24-151 C1].**
Hoa Lai **4-641b**
Hoalsiki, riv., Ice. map **12-43c**
Hoang-ho, riv., China **20-462d, 19-326c**
Hoang-ti (Chin.) **14-637c.**
Hoar, E. R. (pol.) **11-610b.**
Hoar, G. F (pol.) **11-610b.**
HOAR, SAMUEL (law.) **11-610a.**
Hoard L **2-247d**
Hoarding **1-198c;** *see also* Billboards.
Hoare, Michael (arch.): *see* Halfpenny, William.
—, William (paint.) **17-358b.**
Hoare, bay, Franklin, Can. **[24-87 Q3].**
"Hoar-Frost" (Rousseau) **19-587b.**
HOAR-FROST 11-610c; 7-294b; 9-874d fol.
Hoary frost-weed **9-875d.**
— nettle **16-253c.**
— vervain **23-105d.**
— willow **23-628c.**
Hoathly, East, Eng. **[24-15 D5].**
Hoa-tun (tribe): *see* Ephthalites.
HOATZIN 11-610c; 2-261d.
Hoaville, Gérard d' **9-800d.**
Hoax **11-618a.**
Hoaxanas, S.W.Af. [24-81 B2].
Hob (tool) **20-193a.**
Hobab (bibl.) **16-601b.**
Hoban, James (arch.) **23-392c.**
Hobart (fam.): *see* Buckinghamshire, earls of.
—, **GARRET, A.** (states.) **11-610c.**
—, George Vere **4-319d.**
—, John H. (bp.) **18-612c.**
— **PASHA, A. C. HOBART-Hampden 11-610d.**
—, W. K. (crit.) **1-142d.**
—, Ark. **[24-120 B2].**
—, Austr newspaper **16-348d**
—, Ind. **[24-126 A1]**
—, La. **[24-121 D3]**
—, Mich **[24-131 F5]**
—, N.Y. **[24-103 F3]**
—, Okla. **[24-143 D3]**
HOBART, Tas **[24-171 H9; 24-5 D10], 11-610d; 2-710a,** Pl V fig 1 **2-AUSTRALIA, 11-183a**
— College (N.Y.) **10-115a**
Hobart-Hampden, A. C.: *see* Hobart Pasha
Hobart Mills, Calif. **[24-154 C3].**
— to Bluff, to Wellington, (s.s. routes) **[24-175 A5;** to Cape Town **24-3 F6]**
HOBBEMA, MEYNDERT 11-611a, 13-670b fol.
—, Alta., Can. **[24-91 C3].**
Hobbes, John O *see* Craigie, Pearl Mary Teresa
—, **THOMAS 11-611c, 8-585c, 17-752a,** associationism **2-561c** fol., ethics **8-772a,** higher criticism **3-508b,** innate enmity **6-163b,** laughter **13-767a,** logic **14-321c,** psych **18-709b,** social contract **20-881d,** truth **22-523c**
Hobbies, Isls, Hond *see* Caxones, Isls, Hond
Hobbieville, Ind **[24-127 B4].**
Hobbs **9-701d**
—, J.B. **6-691b** fol., **6-701b** fol., Pl I. fig 7 **6-CRICKET,** Pl II. fig 21 **6-CRICKET**
—, W. H. (expl.) **10-858a**
—, Ind **[24-126 C2].**
—, Md. **[24-109 D2]**
—, N Mex **[24-148 F6]**
Hobby (bird) **9-43d, 9-45d, 9-47a.**
Hobby horse: *see* Celeripede.
Hobbysville, S C **[24-113 C2].**
Hobel: *see* Guillotine.
Hoberg, Mo **[24-140 D1].**
Hobgood, N C. **[24-112 H1].**
Hobheuse, L. T **13-203d**
Hobhōth ha-Iebhabhōth (Bahya ibn Paquda) **11-359d.**
HOBHOUSE, ARTHUR H. 1st baron (jur.) **11-614c**
— , John Cam, baron Broughton: *see* Broughton, J C, baron.
—, L. T (psych.) **18-706a**
—, **LEONARD TRELAWNEY 11-614d.**
Hobkirk's Hill (battle, 1781) **1-800d, 4-656d, 10-855a**
Hobley, C. W. **8-356a.**
—, val., Kenya Colony **13-338c.**
Hobo *see* U.S Labour; casual labour.
HOBOKEN, Belg **11-614d.**
HOBOKEN, N J. **[24-105 B2], 11-615a**
Hobro, Den **[24-46 B2].**
Hobson (capt.) **16-401a**
— —, Richmond P **21-151b.**
—, Thomas **11-615b.**
—, co., N Z **[24-172 D1]**
—, Mont. **[24-144 D2].**
—, Nev. **[24-153 E2]**
—, Tex. **[24-123 F5].**
—, mt., N.Z. **[24-172 E2].**
Hobson-Jobson (Burnell and Yule) **4-435b.**
Hobsons, bay, Viet., Austr. **[24-171 G6].**
HOBSON'S CHOICE 11-615b.
Hoby, Sir Philip **11-615b.**
—, **SIR THOMAS 11-615b.**
Hoccleve, Thomas: *see* Occleve, Thomas.
Hochatown, Okla. **[24-143 J4].**
Hochbrucker (inv.) **11-214a.**
Hochdorf, Switz. **[24-31 E2].**
HOCHE, LAZARE 11-615c, 9-810a, Ire. **22-278b;** Rhine campaign (1797) **9-822b** fol.; Vendéans **23-40d.**
—, Louis L. Pl I. fig 13 **9-FRENCH REVOLUTION**
Hoch Elaga, Que., Can. **[24-89 B3].**
Ho-cheng-tien (mus.) 5-574b.
Hochfeller, mt., Alps **1-694d.**
Hochfeld, mt., Fr. **3-186c**
Hochfelden, Fr. **[24-25 N3]**
Hochgall, mt., Alps **1-694d.**
HOCHHEIM, Ger **[24-38 D3], 11-615d**
Ho-chik, China **[24-70 A5]**
Hochkirch, Ger. **[24-39 K2],** battle (1758) **20-392a.**
Ho Chou, China **18-361b**
Hochschule für Musik (Berlin) **6-288a**
Hochspeyer, Ger. **[24-38 C4]**
HOCHST, Ger **[24-38 D3], 11-615d,** battle (1622) **22-137a,** battle (1795) **9-813a,** porcelain **18-353a.**
HOCHSTADT, Bav., Ger **[24-39 G3], 11-616a;** battle (1800) **9-828d;** battle (1704) *see* Blenheim.
Hochstadt (on the Alsch), Bav., Ger. **[24-39 F1]**
— (on the Donau), Bav., Ger. **[24-38 F5]**
Hochst ernannten Freudenfest (Bach) **16-976c**
Hochstett (battle, 1703) **21-165b**
Hochstetter, plains, W Aus., Austr. **[24-168 C2]**
Hochstraten, Jakob von (eccl.) **19-234b**
Ho Ch'ü Ping **5-580b**
Hoch Wald, mts., Ger **[24-38 C4].**
Hochzeit, Ger. **[24-10 C2]**
Hochzeit des Camacho, Die (Mendelssohn) **15-213c**
Hochzeitshaus **11-119c**
HOCK (wine) **11-616a**
Hockamikon rocks, N J. **7-157a**
Hockanum, Conn **[24-101 C1]**
Hockenhorn, mt., Switz. **[24-30 D4]**
HOCKERT, JOHAN F. 11-616c
Hockett, N Mex **[24-148 B6]**
HOCKEY 11-616c; 2-993b, 18-175b, field hockey Pl **11-HOCKEY;** ice hockey Pl **12-ICE HOCKEY.**
— Association (Brit.) **11-616d.**
Hocking, Joseph **11-617d**
—, **SILAS KITTO 11-617d**
—, William E. (philos.) **16-215a**
—, co., O. **[24-125 C4], 14-300c.**
—, riv., O **[24-125 C1]**
Hockingport, O. **[24-125 D4]**
Hockley, Ess., Eng. **[24-15 D4].**
—, co., Tex. **[24-122 C3].**
— Heath, Warwick., Eng **[24-14 B3]**
Hockliffe, Eng. **[24-15 C4]**
Hockett, N H **[24-97 C3]**
HOCK-TIDE 11-618a
HOCUS 11-618a.
Hodacqua Kalauz (Pázmán) **11-893c**
Hoddam, Ill **[24-128 D2].**
HODDEN (cloth) **11-618a**
Hodder, riv., Lancs., Eng. **[24-13 B4]**
HODDESDON, Herts., Eng. **[24-15 D4], 11-618a**
HODEIDA (HODEDA, Hadeda), Arab. **[24-62 C5], 11-618b**
Hödel (criminal) **10-296b.**
Hodgdon, Me **[24-96 E2].**
Hodge, F **2-919a**
—, La. **[24-121 B1].**
Hodgeman, co., Kan. **[24-142 C3].**
—, Kan **[24-142 C3]**
HODGENVILLE, Ky **[24-116 E3]; 11-618b**
HODGES, FRANK 11-618b.
—, Ala. **[24-118 B1]**
—, Kan. **[24-142 C4]**
— , Mont. **[24-144 F2].**
— Hill, mt., Nfd. **[24-93 B2]**
HODGKIN, THOMAS (hist.) **11-618c, 2-79d**
Hodgkins, T. G. **20-837b.**
Hodgkin's disease, *see* Lymphadenoma.
Hodgkinson (phys.) **15-62d**
—, goldfield, Queens., Austr. **[24-169 B2].**
Hodgskin, Thomas **20-801c.**
HODGSON, BRIAN H. 11-618c.
—, Sir Frederic **2-505d.**
—, H. W. (gen.) **20-333d.**
—, Ralph (poet) **8-600d; 18-112d.**
—, **SHADWORTH H.** (philos.) **11-618d**
—, Man., Can. **[24-91 G3].**
Hodh, cl, region, Fr.W.Af. **[24-80 C2].**
Hodierna 18-1006a.
HODLER, FERDINAND 11-618d; 17-61a, 18-322b; 17-61D d
HODMEZO-VASARHELY, Hung **[24-51 G3], 11-618d**
Hodnet, Eng **[24-16 D2]**
HODOGRAPH (math.) **11-619a**
Hodonin, Czech. **[24-51 E2]**
Hodson, Christopher **3-373b**
—, **WILLIAM S. R 11-619b**
Hodsons, Can. **[24-90 C2].**
Hodson's Horse **11-619b**
Hodža, Milan (states.) **17-426d.**
HOE, RICHARD MARCH (inv.) **11-619c**
—, Robert (book-collector) **3-865a**
—, Robert (inv.) **16-355d, 18-500d**
—, Egy II **1-424**
—, pt., Scot **[24-18 B4].**
HOE: *see* Cultivating Machinery, *see also* **6-854b, 6-880d; 1-126a**
Hoeberville, Mo **[24-141 G3]**
Hoe-cake **6-372c.**
HOE CULTURE: *see* Agriculture, Primitive
Hoedlik, Isl., Fr. **[24-25 C4].**
Hoedjes, bay, Cape Col **[24-81 B4].**
Hoe furrow-opener **6-853d.**
HOEFNAGEL, JORIS 11-619d.
Hoeks (party) **11-669c.**
Hoekschewaard, Isl., Holl **[24-28 C3].**
Hoel, A (expl.) **21-251b.**
Hoene Wronski, Joseph M **18-164d**
Hoenig circles **1-231b.**
Hoep, van der Pl II fig. 12 TRANS O AND TRANS-CONT. FLIGHTS
Hoernen, Arnold ther **3-869d.**
Hoernes, R **7-851c**
Hoeryon, Kor **[24-71 F2].**
Hoesch (process) **12-660c**
Hoetjes, bay, S Af **19-870d**
Hoe type revolving machine **18-500d**
HOETZSCH, OTTO 11-619d
Hoevelaken, Holl. **[24-28 D2].**
HOF, Ger. **[24-39 G3], 11-620a**
— (holding): *see* Hufe.
Hofara, Fr Sud **[24-80 C2]**
Hof, Auerbach's **13-894b.**
Hofbibliothek, *see* National bibliothek.
Hofbieber, Ger **[24-38 E3]**
Hofburg (Berlin) Pl III fig. 7 **22-THEATRE ARCHITECTURE**
Hofburg (Vienna) **23-141b,** Pl fig. 5 **23-VIENNA,** Pl II. fig. 1 **2-AUSTRIA.**
Ho-fêng, China **[24-70 A4].**
HOFER, ANDREAS 11-620a
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—, K E. A. von **7-845a.**
—, Eng. **[24-13 B3]**
HOFFDING, HARALD 11-620b, 7-35d.
Hoffkine, W M W **5-618c**
Hoffland, Neb **[24-139 B2].**
Hoffiin, Mo **[24-141 E3]**
Hoffland, N.Dak. **[24-136 A1]**
Hoffman, C. K. (zool.) **10-59b** fol.
—, J H (pres.) **16-840b**
—, John T. (pol.) **16-375d.**
—, Josef (glassworker) **10-405d**
—, **MALVINA** (sculp.) **11-620c**
— von Fallersleben *see* Hoffman, August Heinrich.
—, Ill **[24-129 C5]**
—, Minn. **[24-135 C6].**
—, Mont. **[24-144 C3].**
—, Wis. **[24-132 C5].**
—, isl., N.Y. **[24-104 C5], 16-383b.**
— Ring kiln **5-105d.**
Hoffmann (colonizer) **17-136b.**
— (Ger. sol.) **21-793d**
—, **AUGUST H.** (Ger. poet) **11-620d, 10-227a**
—, **ERNST T. W. 11-621a, 10-226a**
—, **FRIEDRICH** (physic.) **11-621d.**
—, G. (phys.) **8-220d.**
—, H. (phys.) **8-330b.**
—, **JOHANN JOSEPH** (schol.) **11-621d.**
—, Josef Pl. VII. fig 5 **10-GLASS; 15-640b** fol.; **18-358b.**
—, Kal (poet) **7-35c.**
—, **MAX** (gen.) **11-622a**
—, **MELCHIOR:** *see* Hofmann, Melchior.

Hoffmann affair 21-690d.
—kiln 4-114d
Hoffmans, N J [24-105 B2].
—, N.Y. [24-103 F3].
Hoffmansville, Md. [24-109 C1].
Hoffmeister, H 7-420d.
—, N Y [24-103 F2]
Hof-Gastein, Aus. 10-54b.
Hofgeismar, Ger. [24-38 E2].
Hofgericht (court) 12-120c.
Hofheim, Bav., Ger. [24-38 F3]
—, Ger Hesse-Nassau, Prus., [24-38 I3]
Hofische Dorfpoesie (Neidhart von Reuental) 10-221a.
Hofkirche (church) 7-646d
HOFMANN, AUGUST WILhelm von 11-622a, 1-810b, 1-814d, 5-361c, 5-371b, 5-380c.
, Clementina (writ.) 18-161a.
—, Johann J (schol.) 8-425d
, **JOSEF C.** (pianist) 11-622c
, **(HOFFMANN), MELCHior (theol.)** 11-622c
HOFMANNSTHAL, HUGO von (poet) 11-622d, 2-775d; 10-229b
Hofmannswaldeau, Christian Hofmann von (au.) 10-225b.
Hofmeister (chem.) 6-24d.
—, **WILHELM F. B.** (bot.) 11-623a; 1-924c, 3-615b.
Hofmeyr, G R 21-61b
, **JAN HENDRIK** (pol.) 11-623b, 4-780b fol., 21-57d; 22-430b.
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Hofra, Sah 9-211a.
Hofrah el Nahas, A. E Sud. [24-79 A6].
Hofrat (council) 2-691d
Hofrätter (court) 21-639c.
Hofsá, riv., Ice. map 12-43c.
Hofsjökull, glacier, Ice. map 12-43a
, plat., Ice. 12-42b fol.
Hofsós, Ice map 12-43a
Hofttheater (Dresden) 7-647b, d.
Hofuf, Arab 17-603d
Hofwil, Switz. [24-30 C2].
—(farm) 21-687d
Hog, Isl., Fla [24-115 F3].
, Isls., Hond.: *see* Puercos, Isls.
, Isl., Mich. [24-130 F4].
—, Isl., R. I [24-100 C3].
—, Isl., Va [24-110 J3]
— (animal) 19-61d.
—(in curling) 6-876d
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—, P J. (pol.) 12-631b.
—, Alsk [24-156 M5].
, Mont [24-144 B2]
Hoganasburg, N Y [24-103 F1]
Hoganasville, Ga [24-114 B3].
Hogar, Sah [24-78 E3]
Hogarth, Catherine *see* Dickens, Catherine Hogarth
—, **DAVID G.** (archæ.) 11-623d, 1-580a; 2-236c 17-244b
, George 7-332c.
, **WILLIAM** (paint.) 11-624a, 1-272a; Pl. I fig. 4 4-CARICATURE, 4-860a, 9-247c, 15-698d, 18-267b, 23-693d, 17-51d.
Hogback, mt., Neb. [24-139 A3]
Hog badger 4-899d
—cholera *see* Swine Fever.
DEER 11-626c; 7-135a; 12-156c
Hogenberg (carto.) 14-366b.
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—, **JAMES** (poet) 11-626c, 8-593c, 8-790b, 13-596d.
—, Margaret, Il. 18-384b.
—, Quintin (educ.) 14-357a; 18-193b
—, **THOMAS JEFFERSON** 11-626d, 20-484b.
—(Hooget) 23-720d.
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Hog, Isl., Ind. O. 6-765b.
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Hogmany (cake) 11-626d.
Högul (hero) 11-509c, 16-408a.
HOGNOSE 11-626d; 20-852b.
Hog nut 16-616a.
Hogolu, Isl., Pac. O.: *see* Truk.
Hog-plum: *see* Wild mango.
Högs, fiord, Nor. [24-44 A2]; 1-388d; 1-412a; 1-414a; fig. 18 1-418; 15-150a.
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— Back, ridge, Eng. 7-564d.
Hog-score 6-876d
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Högskola (univ.) 21-424d.
Högsta Domstolen (court) 21-639c.
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—, Ger. [24-39 G3].
Hohenburg, Ger. [24-39 G4].
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—, Gustav A. (card.) 14-203d; 16-763b.
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Lentibulariaceae *see* Bladderwort.
LENTICEL (bot.) **13-924a.**
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— large blonde, *see* Lentil
Verte du Puy (bot.), *see* Lentil
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Lentini (Lentinoi) Sic. **20-695d**; map **1-209.**
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Lent Lily **14-124b.**
Lentner, Mo. **[24-141 E2].**
LENTO (mus.) **13-924c**
Lenton lake Fla. **[24-48 C2]**
LENTULUS (Rom. fam.) **13-924c.**
—, Lucius C. (Crus or Cruscello) **13-925a** **17-694d.**
—, Publius C. (Spinther) **13-924d**
Publius C. (Sura) **13-924d**
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Lenz II F. E **9-424d**
—, **JACOB M. R. 13-925a**; **10-224d.**
Lenz, Oskar **2-639b**; **19-817c.**
—, Switz. **[24-31 H3].**
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—, Switz. **[24-30 E2].**
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LEO II. (pope) **13-925d**
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LEO IV. (pope) **13-926a**; **6-772d**
LEO V. (pope) **13-926a**, **5-643c**
LEO VI. (pope) **13-926a.**
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—, **JOHANNES** (Giovanni) (Moor) **13-931b.**
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Leofric Missal (rel.) **14-227c.**
Leola Ark **[24-120 C3].**
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—, **LUIS PONCE DE** (poet) **13-932c**; **18-593d**; **21-156a**, **21-157a**, **21-158c.**
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—, Ky. **[24-116 H2].**
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—, N.Y. **[24-102 A3].**
—, O. **[24-124 E2].**
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—, W.Va. **[24-111 B3]**
—, mts., Sp. **[24-32 C1]**
—, Etang de, lake, Fr. **[24-26 B4]**
—, riv., Sp. **13-933c.**
—, riv., Tex **[24-123 E2].**
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—, Pa **[24-107 E2]**
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—, Mich **[24-131 H7].**
—, Minn. **[24-134 C4].**
—, Mo **[24-141 E2].**
—, N.Dak **[24-136 G3].**
—, Wis **[24-132 B3]**
—, W.Va. **[24-111 C3].**
Leonarda (Björnson) **3-676c.**
Leonard and Gertrude (Pestalozzi) **17-639b.**
Leonard Bridge, Conn. **[24-101 D1].**
Leonardo, N J **[24-105 B2]**.
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— **DA VINCI 13-933d**; **1-742a**; Pl III. fig 6 and 9 **17-PAINTING**; Pl IV **17-PAINTING**; anat studies **15-200c**, camera obscura **4-659a**, capillary action **21-503c**, drawings **4-864b**, flying machine of, 1500 Pl I, fig. 1 **1-AERONAUTICS**; geology **10-155c**, landscape **13-670a**; map **14-842d**, med **18-463a**, portraiture **18-266c**, Raphael **18-982b**; scales **23-482d**, spinning mach **6-553a**, statue, Sforza **20-211c**; Verrocchio **23-91b**; works **17-38d**
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Leonardus Pisanus: *see* Leonardo of Pisa.
Leonberg, Ger. **[24-38 E5].**
LEONCAVALLO, RUGGIERO 13-941a
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, Tex **[24-122 C4].**
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—, bay, Tutuila I., Samoa **[24-176 E2]**
—, mt., Mex. **16-665d.**
—, mt., Switz. **[24-30 E4]**; **1-694c** **13-957a.**
—, mts., W Af. **9-742a.**
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Leonelli, Zecchini **14-303b**; **15-80c.**
Leonforte, Sic. **[24-35 E6].**
"Leon Gambetta" (cruiser) **23-784c**
Leonhard, von (geol.) **17-673a.**
Leonhart, Dorette **4-400c.**
Leoni, Ottavio **21-111a**
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, N J. **[24-104 D2].**
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Leonid (meteors) **6-102b**; **6-104c**; **1-155d**; **13-932a**; **15-338a** fol
Leonidaeum (bldg.) **16-780b.**
LEONIDAS (k.) **13-941a**, **10-504b.**
— II. (k.) **5-800c**; **21-172c.**
Leonidas (Glover) **10-440b**
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Leonidi, Gr. **[24-54 C4].**
Leonine (wall) **23-3c.**
— city, dist., Rome, It. **2-82a.**
— **VERSE 13-941b**, **19-270d.**
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— mine (mil.) **15-535a.**
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LEON OF MODENA 13-941b, **11-362a.**
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— (q. of Navarre) **5-280b.**
— (of Portugal) **9-714a.**
— (of Port., 1486) **18-277c.**
—, Austr **[24-108 C4].**
Leonora (Beethoven); *see Fidelio.*
Leonora Telles (q. of Port.) *see* Leonora (q. of Port.)
Leonore, Ill. **[24-128 D2].**
Leonore (Beethoven); *see Fidelio.*
Leonotis (bot.) **16-127d**
Leonov, Leonid (au.) **19-757b**
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León Roch (P. Galdós) **21-159d.**
LEONTIASIS OSSEA 13-941b
Leontiev, Constantine (au.) **19-754b.**
LEONTINI, Sicily **13-941c**
LEONTIUS (theol.) **13-941c**, **10-841c**; **10-843c**
Leontopodium alpinum: *see* Edelweiss.
Leontopolis, Egy **8-77c**
Leonville, La **[24-121 C3]**
LEOPARD 13-941d, **3-557a** Pl. III fig 2 **9-FUR**; **12-155c.**
"Leopard" (ship) **22-706c.**
Leopard, snow **3-553c.**
Leopard-cat **5-13d**; Pl. I. fig 6 **5-CATS**
— heraldry **11-468c.**
LEOPARDI, GIACOMO, count (poet) **13-942a**; **12-746d.**
Leopard moth **13-948b**; **13-955c**
LEOPARDO, ALESSANDRO (sculp.) **13-942d**, **4-243c**; Pl X. fig. 4 **20-SCULPTURE** TECHNIQUE.
LEOPARD SEAL; *see* Sea leopard.
Leopard's head (hall mark) **20-689b.**
Leopard societies **14-511a.**
Leopardus **4-890a.**
— pardalis: *see* Ocelot.
LEOPOLD I. (Rom. emp.) **13-942d**, **2-755b**, **10-271c**; Frederick I **9-715d** genealogy **11-58b**, Hung. **11-607c**, negotiations with **22-431c** Pol **18-142a**; Pragmatic sanction **11-60a.**
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LEOPOLD I. (k. of Belg.) **13-945c**; **3-360d**; **7-700d**; **7-802c** **23-125a.**
LEOPOLD II. (of Belg.) **13-944a**; **3-361c**; Congo Free State **6-243a**, **3-362b**; **1-323c**; **1-325a**; Stanley **21-315c**, will **6-244c.**
— I. (of Anhalt-Dessau), *see* Anhalt-Dessau, Leopold I. prince of
— II. (of Anhalt-Dessau) **1-957d**; **2-777a**
— (of Hohenzollern-Sigmaringen) **10-291c.**
— (of Saxe-Coburg); *see* Leopold I. (k. of Belg.).
—, archduke (Sp. Netherlands) **9-865a** fol.
— I. (of Tuscany) **22-632d** fol.
— II (of Tuscany) **4-818d**, **9-393c**; **9-965c**; **11-590d**; **12-802c**; **22-633b.**
—, duke of Albany **23-126b**
— (of Babenberg); *see* Luitpold.
— III (of Carinthia); *see* Leopold III. (of Habsburg, duke of Aus.).
— I. (Habsburg) **11-58a.**
— II. (Habsburg) **11-58c.**
— III. (Habsburg) **11-57a** **11-58c**; **21-683a.**
— IV. (Habsburg) **11-58c.**

LEOPOLD II. (of Habsburg-Lorraine) **13**-944b; **11**-59a.
Leopold (of Lorraine) **14**-397c.
— III. (of Styria): *see* Leopold III. (of Habsburg, duke of Aus.).
— VI. (of Styria) **2**-837d.
— III. (of Tyrol): *see* Leopold III. (of Habsburg, duke of Aus.).
— III. (margrave of Aus.) **2**-837d, **16**-907c.
— IV. (margrave of Aus.) **2**-837b.
—, Carl Gustaf (au.) **21**-657a.
— Svend (writ.) **7**-35c.
—, William (Habsburg, d. 1614) **11**-58d.
—, William (bp.); **9**-166c.
—, 1nd. [**24**-127 B4].
LEOPOLD II., lake, Bel. Cong. [**24**-82 C3; **24**-185 E3]; **13**-944d; **13**-287a.
—, Order of **13**-436c.
Leopoldina, Goyaz, Braz. [**24**-163 B5].
—, Minas Geraes, Braz. [**24**-164 B5].
—, Pernambuco, Braz. [**24**-164 C2].
Leopoldine (of Aus.); *see* Leopoldine (of Braz.).
(Braz.) **11**-59a.
Leopoldville, Bel. Cong. [**24**-82 C3]; **3**-345b.
Leora, Mo. [**24**-141 G4].
Léormont, Fr. **14**-486c
Leota, Minn. [**24**-135 B8].
Leotl, Kan. [**24**-142 A3].
LEOTYCHIDES 13-944d; **7**-178b.
Leova: *see* Luiva.
LEOVIGILD (LOWENHELD) 13-945a; **21**-120a; **10**-210c, **10**-551a.
Leoville, Kan. [**24**-142 B2].
Leovo, Rum. [**24**-53 E2].
Lepa, Upolu I., Samoa [**24**-176 C1].
Lepadidae: *see* Stalked barnacle.
Le Palais, Fr. **3**-379d
Lepanto, Gr. [**24**-54 B3].
—, **THE BATTLE OF** (1571) **13**-945b; **13**-922d; **22**-602d; **23**-644d, **19**-973b; battle, 1499 **22**-600c.
—, gulf, Gr: *see* Corinth, gulf, Gr.
Lepanto (Chesterton) **5**-440b.
Lepargyraea argentea: *see* Buffalo-berry.
canadensis: *see* Canadian buffalo-berry.
Lepas fig 4 **6**-800.
—anatifera. *see* Goose-barnacle.
Lepau, Isl., Du. E. I. **3**-36a.
Lepautre, Jean **12**-676b.
LEPCHA 13-945c; **7**-60c, **20**-651a.
Lepel, U.S.S.R. [**24**-48 C4].
LE PELETIER (LEPELLETier) De Saint-Fargeau, L. M. 13-945c.
Leper *see* Cagot.
Lepers, Isl., New Hebrides Is., Pac. O. [**24**-176 A1].
Lepeta (zool.) **10**-63a
Le Petit-Quevilly, Fr. [**24**-24 G2].
Lepidine **18**-854b.
Lepidium **17**-498a; *see also* Cress.
ruderale: *see* Roadside pepper-grass.
sativum: *see* Cress; garden cress.
—virginianum: *see* Wild pepper-grass.
Lepidocaris **4**-28a; **6**-805a
rhyniensis: *see* Devonian fossil
Lepidocarpon **17**-75c.
Lepidocoleus fig. 10 **7**-808.
Lepidocroclite **10**-475d; **14**-135c.
Lepidocyclina **8**-631d; **15**-584a
Lepidodendron **4**-846b, Pl I fig. 7 **17**-PALAEOBOTANY, **17**-74d.
Lepidolemur: *see* Sportive lemur.
LEPIDOLITE (LITHIA-Mica) 13-945d; **15**-406a; **19**-611c.
Lepidomelane **3**-621c.
Lepidophyma **14**-245c.
LEPIDOPTERA (zool.) **13**-945d; **13**-418c; **13**-952b; distribution **13**-954d; hearing **11**-300c; natural history **13**-953c; olfactory **20**-821a fol.; pollination **13**-170b.
Lepidopteris **17**-86d.
Lepidosaphes ulmi: *see* Apple scale insect.
Lepidosiren (zool.) **14**-487a; **8**-328b
Lepidosteoid ganoids **17**-107d.
Lepidosteus (zool.): *see* Garpike.
— osseus (zool.) *see* Long-nosed gar.
Lepidostrobus **17**-75b.
Lepidotus **13**-194a.
Lepidurus glacialis (zool.) fig. 3 **4**-28.
LEPIDUS (fam.) **13**-950c.
—, M. A. (triumvir) **2**-687a; **19**-497d, **16**-622c.
—, M. Aemilius (consul) **1**-221b.
Lepini, mts., It. [**24**-34 D4]; **2**-95b, **12**-755d.
L'Epiphanie, Que., Can. [**24**-80 B3].
Lepisma saccharina: *see* Silver fish.
LE PLAY, F. G. FREDERIC 13-950d, **20**-914a.
Lepodermatidae **22**-451b.
Le Poiré, Fr. [**24**-26 B1].
Le Pollet, Fr. **7**-347d.
Lepomis auritus *see* Long-eared sunfish.
Le Pont, Switz. [**24**-30 A3].
Le Pont-de-Beauvoisin, Fr. [**24**-27 J2].
Lepontic inscriptions **14**-119b.
LEPONTINE ALPS, (Adula mts) mts., Switz. [**24**-31 G3; **24**-186 E3]; **13**-957a.
Lepospondyls **1**-833a fol.; **1**-836d; **1**-838b
Lepperhey, Johann **3**-583b.
Leppich, Franz **11**-199b.
Lepra: *see* Syphilis.
Lepra Arabum: *see* Leprosy.
Lepraea Bacillus Pl. IV. fig. 16 **2**-BACTERIOLOGY.
Lepreau, pt., N.B., Can. [**24**-88 C3].
Lepreum, Gr. **8**-361a.
Le Prince, J. B. **2**-159b; **8**-611c.
LEPROSY 13-957a; **11**-270d; **17**-134c; **21**-48b, **22**-73b
Leprosy and Fishcating (Hutchinson) **11**-947a.
Lepsa, riv., U.S.S.R. **2**-901d.
Lepsina, Gr: *see* Elensis.
LEPSIUS, KARL R. 13-958b; **8**-41c fol., **15**-328a
— alphabet **18**-579d.
Leptaena rhomboidalis Pl. figs. 15, 18 and 19 **3**-BRACHIOPODA.
Leptamnium virginianum. *see* Beech-drops.
Leptaspis (bot) **10**-654a fol
Leptauchenia (fossil) fig. 5-A **2**-481.
Leptiminus, Af.: *see* Leptis Parva.
"Leptines, Against" (Demosthenes) **7**-193a.
Leptinotarsa decemlineata: *see* Colorado potato beetle
LEPTIS, Af. **13**-958c, Magna **3**-205a; **1**-318a, map **19**-500 (E5), Parva (minor) **13**-959a.
Leptocephali **8**-22c; **9**-317b.
Leptochlorites **5**-600c.
Leptocoelia flabellites (zool.) **7**-291d.
Leptodactylidae: *see* Cystignathidae.
Leptolepidae **9**-315c; **17**-108a.
Leptolepis **13**-194b.
Leptom (bot) **18**-6c.
Leptomanis **7**-951c.
Leptomedusae (zool.) **12**-4d.
Leptonychotes Weddelli: *see* Weddel's seal.
Leptoplanidae **22**-573d.
Leptoptilus argala **9**-131c.
—crumenifer: *see* Marabou Stork.
— dubius **1**-168a.
— javanicus **1**-168a; **9**-131c.
Leptospira **15**-186d.
—icterohaemorrhagiae **2**-893b.
—icteroides **2**-893c; **15**-194c; **23**-883c
Leptosporangiate ferns **18**-728d.
Leptosyne maritima: *see* Sea dahlia.
Leptotene stage **6**-948a.
Leptotila fulviventris brachyptera: *see* White-fronted dove.
Leptotyphlopidae (Glauconidae) **20**-851a.
Le Puglie, dist., It.: *see* Apulia.
Lepus: *see* Hare, North American.
—(astron.) **21**-323c; Pl. II. **21**-STAR.
— arcticus: *see* Polar hare.
— europaeus: *see* Hare
— granatensis: *see* Iberian hare.
Lepus groenlandicus: *see* Greenland hare.
— hibernicus **11**-194d.
— netscheri **21**-549b.
— timidus. *see* Blue hare.
— variabilis: *see* Mountain hare.
LE PUY (Le Puy en Velay), Fr. [**24**-27 G2]; **13**-959a **11**-256c, Pl. IV. **9**-FRANCE, **17**-927d
—cathedral **21**-271b; Pl. IV. **9**-FRANCE, **21**-298c.
— St. Front, Fr: *see* Vesunna
Le quatorze juillet (Rolland) **19**-388a.
Le Quesnel, Fr. **1**-813a.
LE QUEUX, W. T. (nov.) **13**-959b
Lequire, Okla [**24**-143 H3].
Lequis, von (gen) **4**-814d fol.
Ler, riv., Sp: *see* Lerez.
Lera, Fr.W.Af. [**24**-80 D3].
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Lerdo, Mex. [**24**-158 I2].
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—, Sp. [**24**-32 E1].
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Lerothodi **3**-197a
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Le Roy, Adrien **20**-986b.
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—**BEAULIEU, PIERRE P. 13**-960d
—, Philip **22**-975a
—, Ala. [**24**-118 A4].
—, Ia. [**24**-138 D4].
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—, Mich. [**24**-131 F5].
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—, N.Dak. [**24**-136 G1].
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—, Pa. [**24**-107 E2].
—, Tex. [**24**-123 F4].
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Lesbian lent (arch.) **15**-926b.
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Lesbury, Northumb, Eng [**24**-12 C2].
Les Cabannes, Fr. [**24**-26 E5]
Lescar, Fr. [**24**-26 C4]
L'Escarène, Fr. [**24**-27 L4].
Les Caves, Hai **11**-82c.
LESCHES 13-962d.
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— Ebaudements, Que., Can. [**24**-89 C2].
— Echelles, Fr. [**24**-27 J2].
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Le Sentier, Switz [**24**-30 A3].
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Les Escoumains, Que., Can. [**24**-89 D1].
— Essarts, Fr. [**24**-24 D5].
— Etangs, Fr. [**24**-25 M2].
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Leshia, N Mex. [**24**-148 E3].
Leshnevka, Pol. [**24**-41 G3].
Les Iis, Fr [**24**-24 F2]
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LESION 13-963c, **16**-959a, **2**-896c.
Lesjaverk, Nor. [**24**-42 D5].
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—, **CHARLES R.** (paint.) **13**-964c.
—, **DAVID**: *see* Newark, David Leslie, Lord
—, John, 6th earl of Rothes (Scot pol): *see* Rothes.
—, **JOHN** (bp) **13**-965d.
—, **SIR JOHN** (math.) **13**-964d.
—, John (phys.) **21**-594a.
—, **J. PETER** (geol) **13**-964b.
—, Sir Patrick **16**-272d.
—, **THOMAS E. C.** (econ.) **13**-964d.
—, co., Ky. [**24**-116 G3].
—, Ga. [**24**-114 B5].
—, Ia. [**24**-138 D4].
—, Ida. [**24**-145 E6].
—, Ky. [**24**-116 E4].
—, Md. [**24**-109 D1]
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—, riv., Colom.: *see* Guaviare
Lesser (in place names), e.g. Lesser Antilles, Lesser Slave, etc. *see* Antilles, Slave, etc.
Lesser ant eater **7**-949c.
—Bairam (festival): *see* Kilchik Bairam
— baron (title) **3**-130a.
— bird of paradise **3**-440a.
— Birdsfoot Trefoil (bot) **10**-648d.
—celandine (bot.) **5**-88a; *see also* Pilewort
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—, Ill. [**24**-129 D5].
—, Neb. [**24**-139 F4].
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—, Wash [**24**-150 D3].
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Let (badminton) 2-618c, lawn tennis 13-784c fol.; rackets 18-872c.
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—, **WILLIAM F.** (states.) 15-36a; 16-403c; Coates 5-929a.
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MATACAN **15**-45a.
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— de São João, Braz. [**24**-164 C3].
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Matagamon, Me. [**24**-96 D2].
—, lake, Me. [**24**-96 D2].
Matagorda, co., Tex. [**24**-123 G5].
—, Tex. [**24**-123 G5].
—, bay, Tex. [**24**-123 G5].
—, isl., Tex. [**24**-95 G5].
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—, pt., N.Z. [**24**-172 G2].
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— strata. **6**-674a.
Mataye, Fr. W. Af. [**24**-80 A1].
Match, Tenn. [**24**-117 E2].
MATCH (taper) **15**-45c; **9**-263c; **7**-320d.
"Matchless": *see* "Makalōs."
—-**LOCK**: *see* Gun.
—-Play (golf) **10**-504b.
Mate, The: *see* Astley, Sir John Dugdale, bart.
MATE (tea) **15**-47a.
Mate (of ship) **13**-811b.
— (chess): *see* Checkmate.
Matehuala, Mex. [**24**-158 D3]; **19**-951a.
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Matejko (Pol paint.) **17**-56b.
"Matelots Les" (ballet) **2**-695b.
Matemma, Sud.: *see* Gallabat.
MATERA, It. [**24**-35 F4]; **15**-47b; **12**-761d.
Mater Deum Magna: *see* Great Mother of the Gods.
MATERIAL CULTURE (sociol.) **15**-47c.
Material Culture of the Simpler Peoples (Hobhouse) **13**-203d.
Material fact (law) **9**-271d.
— fallacy **9**-55c.
Material-handling: *see* Mechanical handling.
— inference: *see* Inductive influence.
MATERIALISM (philos.) **15**-50b, **15**-721d; **17**-755b; Bergson **17**-758a; dogma **15**-50b, ethico-religious **6**-164a, Hobbes **17**-752a; Indian **12**-249c, Leucippus **18**-89b, naturalism **16**-164c; Neo-Kantianism **16**-215b; physicians **15**-50b; psycho-physical **3**-773b, Spencer **18**-89b; Stoics **21**-420c.
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—, testing of: *see* Testing of materials.
Materia Medica (Dioscorides) **7**-401c.
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Maternal inher **11**-490a.
Maternity **13**-405d fol.
— allowance (Fr.) **9**-600d.
— and Child Welfare Act **15**-66a.
— and Infancy Act (U. S.): *see* Sheppard-Towner Act.
— **AND INFANT WELFARE** **15**-66a; **16**-670b; farming **2**-840c; feeding **5**-470a, insurance **16**-146c; laws **15**-181c; prenatal **2**-24c **2**-23d
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Máté Szalka, Hung. [**24**-51 H3].
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Matfield Green, Kan. [**24**-142 F3].
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Matha, Jean de **9**-150b.
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MATHEMATICAL ARTICLES **15**-68d.
— Association (Brit.) **20**-88a.
— geography **10**-149b.
— **INDUCTION** **15**-69a.
— **INSTRUMENTS** **15**-69b; figs. 1, 2 **12**-PRODUCT INTEGRAPH.
— logic **14**-330d; **1**-347c.
— **MODELS** **15**-72a.
— **SOCIETIES AND PERIODICALS** **15**-75c.
— **TABLES** **15**-78d.
MATHEMATICS, FOUNDATIONS of **15**-82d.
MATHEMATICS, HISTORY of **15**-84c; **1**-223a; **15**-88c fol.; **17**-881b; fig. 9 **1**-6; d'Alembert **1**-551a; Archimedes **2**-269c; Cayley **5**-81b, De Morgan **7**-191a; Descartes **7**-247d; **7**-252c; Diophantus **7**-399a fol.; educ. **7**-970b; **20**-87d; Egypt **8**-57a; Euler **8**-811c fol.; Hume **11**-880d fol.; Kant **13**-270a fol.; Plato **18**-48c; **18**-62a fol.; Pythagoras **18**-803a; rationalism **18**-992a; B. Russell **19**-679b; Sanskrit **19**-970d.
—, **NATURE OF** **15**-85b; **1**-264d; **10**-911d; algebra **1**-603c; applied **15**-86a fol.; diagrams **7**-308b; **10**-645b, differential equations **7**-300c; evolution **8**-915d; Fourier series **9**-564d, fraction **9**-574d fol.; hyperbola **12**-21a; logistic **14**-333c; models **15**-72a; spherical harmonics **21**-210c; *see also* Geometry.
Mathematische Gesellschaft (Hamburg) **15**-76b.
MATHER, COTTON **15**-89d; **3**-936b; **1**-785b; **17**-952a; **3**-597a.
—, **INCREASE** **15**-90b; **1**-785b.
—, **RICHARD** **15**-90d.
—, Thomas **12**-436d fol.; **12**-442c.
—, Wis. [**24**-133 C5].
Matheran, India [**24**-67 B3].
Mather-Koechlin process **3**-714c.
Mather tower (Chicago, Ill.) **5**-449b.
Matheson, Johann **11**-143c.
MATHEW, THEOBALD (Father) **15**-91a; **12**-612c.
MATHEWS, CHARLES **15**-91a; **20**-830d.
—, John A. **11**-551b.
—, P. D. **6**-751c.
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—, **THOMAS** **15**-91c; **2**-780d; **16**-170a; **22**-323a.
—, co., Va. [**24**-110 H3].
—, Ala. [**24**-118 C3].
—, Mo. [**24**-141 H5].
—, Va [**24**-110 H3].
—, bay, Jap [**24**-75 E10].
Mathewson, Colo. [**24**-147 G2].
— file-sharpener **19**-935c.
Mathey, Wales [**24**-16 A3].
— Cement Co.: *see* Atlas Portland Cement Co.
Mathgamain **12**-601d; **4**-108d.
Mathia, mt., Gr.: *see* Lykōdimo.
Mathias, W.Va. [**24**-111 E3].
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Mathiez, Albert **7**-42c.
Mathilden höhe (dist., Ger.) **7**-62b.
Mathis, Tex. [**24**-123 F5].
Mathiston, Miss. [**24**-119 C2].
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Mathnawī (Rūmī) **21**-523b.
Mathnawī (Sultān Veled) **22**-619b.
Mathoura, N.S.W., Austr. [**24**-171 G5].
Mathrafal, Wales **8**-115c.
Mathuata, isl., Fiji, Is. [**24**-176 D2].
MATHURA, India: *see* Muttra.
Mati, Gr.: battle (1897) **10**-506d.
—, P.I. [**24**-73 C4].
Matiaculah, Fr. W.Af. [**24**-80 E3].
Matiara, India [**24**-66 B1].
Matice (publ. co.) **3**-785c fol.
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Ma-tien, riv., China [**24**-70 A2].
Matière de Bretagne **9**-778a.
Matière de Rome **9**-778c.
Matignon, Jacques G., comte de **7**-516c.
—, Fr. [**24**-24 C3].
Matli (lang.) **9**-258c.
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— I. (of Nevers) **2**-877a.
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Mating **14**-940b; **20**-208c; **11**-955d; **11**-496b; animal **1**-964b; bird **16**-921a; *see also* Reproduction; Fertilization.
Matinicus, lake, Me. [**24**-96 D5].
MATINS **15**-92c.
Matisco, Fr.: *see* Macon.
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Matjan rembak **12**-975c.
Matjesfontein, Cape Col. [**24**-81 C4].
Matjua, mt., Mal. Arch. [**24**-72 A3].
Mat Kaidū, dist., Asia **5**-195a.
Matkas: *see* Fur-seals.
Matlask, Eng. [**24**-14 E3].
Matlin, Utah [**24**-152 A1].
MATLOCK, Derby., Eng. [**24**-14 B2]; **15**-92c; **7**-238c.
—, Ia. [**24**-138 B1].
—, Vict., Austr. [**24**-171 H6]
—, Wash. [**24**-150 B3].
— Bath, Derby., Eng. [**24**-14 B2].
Matlockite (min.) **13**-820a.
Matmat, Alg. [**24**-78 F2].
Matmata (people) **22**-557a; **1**-303d.
Matochkin, str., Arct. **13**-279c.
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Matombo, Tanganyika Terr. [**24**-83 G4].
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Matoniaceae **18**-729a.
Matonidium **17**-80c.
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Matopo, hills, S.Af. [**24**-81 D2].
MATOS FRAGOSO, JUAN DE **15**-92d.
Matos, Norton de **1**-950c.
Matotchkin Shar, Arct. [**24**-4 A9].
Mato Tepee, mt., Wyo.: *see* Devil's Tower.
Matour, Fr. [**24**-27 H1].
Matra, Hung. [**24**-51 G3].
—, mts., Hung. **4**-907a; **11**-898d.
Matrah, Arab. [**24**-62 F3]; **16**-785c.
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Matran, Switz. [**24**-30 C3].
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Matrensa, Sic. **20**-604d.
Matres, Llb. Des. [**24**-78 G2].
MATRIARCHY **15**-92d; **13**-404c fol.; **9**-60a fol.; India **4**-984a; marriage **14**-943b.
Matricaria camphor: *see* Laevo-camphor.
— chamomilla: *see* Chamomile, wild.
— Japonica Maxima: *see* Chrysanthemum.
Matricula (tax) **15**-93d.
Matriliny: *see* Matriarchy.
Matrimonial Causes Act (1857, Eng.) **7**-455a fol.; **6**-289c; (1860, Eng.) **18**-547b; (1907, Eng.) **1**-635b; (1923, Eng.) **7**-457c; (1923, Scot.) **20**-177d.
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MATRIMONY (game) **15**-93c.
Matrix (math.) **6**-96c; **10**-914d; **18**-826a; *see also* Characteristic matrix.
MATRIX (mould) **15**-93c; die sinking **7**-353d; printing **2**-789d; **18**-502d; seal **20**-244a.
Matronalia **13**-187b.
Mat Saleh (of Borneo) **3**-915b.
Matshangana (tribe) **10**-82c.
Matson, Mo. [**24**-141 G3].
Matson's Ford, Pa.: see Conshohocken.
Matsu, bay, Jap. [**24**-75 M7].
Ma-tsu, isl., China [**24**-70 C4].
Matsudaira (Jap. fam.) **12**-946a.
—, Setsuko **15**-93d.
MATSUDAIRA, TSUNEO **15**-93d.
Matsudaira Sadanobu **12**-942c.
Matsue, Japan Pl. O **5**-CEMETERY
MATSUKATA, MASAYOSHI, prince marquis **15**-93d.
Matsumoto, Jap. [**24**-75 L5].
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Matsusaka, Jap. [**24**-74 K6].
Matsushima, Jap. [**24**-75 M4].
Matsu Shima (Dagelet), isl., Jap. [**24**-74 G5].
Matsushiro, Jap. [**24**-75 L5]
Matsuura Hajime **12**-990a.
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—, Jan **15**-94d.
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Ornithorhynchus (zool.) **20-741b**; (genus) Austr. **2-711a**, brain **4-19b**, hair **11-80b**, reproduction **19-180a**; skeleton **20-736b** fol ; spurs and beak **20-753d**, *see also* Duck-mole, Duck-billed platypus.
— anatinus: *see* Platypus.
Ornithoscatoides: *see* Squat spider
Ornö, Swed **[24-45 H2].**
Ornölite **7-401b.**
Ornothischia **7-391a**
Ornsay, isl, Scot **20-765c.**
Ornskoldsvik, Swed. **[24-42 J5].**
Oro, Alfredo De **3-570b.**
—, prov., Ec. *see* El Oro, prov., Ec.
—, riv., Sp. **14-474b**
— (society) **20-261d**
Orobanche (bot): *see* Broomrape
Orochene (lang.) **22-886d.**
Oro City, Colo.: *see* Leadville.
ORODES (Kings of Parthia) **16-934c**
—I. **16-934d**; Hellenism **17-578d** fol.; Phraates III. **17-849a.**
—II. **16-931d**; **17-345b.**
Orodes (Lydia) **18-182d.**
Orofino, Ida. **[24-145 B3].**
Oro Grande, Calif. **[24-155 E5].**
Orogrande, Ida. **[24-145 C4].**
—, N.Mex **[24-148 C6].**
Orohena, mt , Tahiti **[24-176 B2]**
Orohippus (zool.) **3-671d.**
Orokaiva (tribe) **16-299a**
Orokolo (lang.) **17-241c**
Orolaunum, Belg., *see* Arlon.
Oromocto, N.B., Can. **[24-88 C3]**
—, lake, N.B., Can. **[24-88 C3].**
—, riv. N.B., Can. **[24-88 C3]**
Orondo, Wash. **[24-150 E3].**
Orongo, Easter Isl **7-861a.**
Oron-la-Ville, Switz. **[24-30 B3].**
Orono, Can **[24-90 C3].**
—, Me **[24-96 D4]**, univ. **3-32a**
Oronoco, Minn. **[24-135 F8].**
Oronoque, Conn. **[24-101 B2].**
Oronsay, isl , Scot. **11-373c.**
Orontes, mt., Pers.: *see* Elvend
ORONTES, riv., Syria **16-934d**; *see also* Nahr El-'Asi.
Orontium aquaticum (bot.): *see* Golden Club
Orontobates (of Caria) **4-861b.**
Oropastes *see* Smerdis.
Oropendola (bird) **16-922b**; Pl III. fig 11 **3-BIRDS.**
Oropesa, Bol.: *see* Cochabamba.
Orophernes **16-479a.**
Orophocrinus fusiformis fig. 15 **7-899.**
Oropus, terr., Gr. **2-660d.**
OROPUS (Oropo) Gr. **16-935a**; **1-706c**; *see also* Luro.
Oroscoptes montanus: *see* Sage thrasher.
Orosei, gulf, Sard. **[24-35 B4].**
Orosi, mt., C. R. **[24-158 G5].**
OROSIUS, PAULUS 16-935a; **14-839c**; **2-114d**; **17-448a.**
Orospedans (people) **21-125c**
Oros Stavro, mt., Cyprus: *see* Holy Cross (hill).
Orotava, Can. Is. **21-930d.**
Orotiña (dialect) **5-129c.**
Oroua, co , N.Z. **[24-172 E4].**
Orovada, Nev. **[24-153 C1].**
Oroville, Calif. **[24-154 C3]**, **5-462a.**
—, Wash. **[24-150 F2].**
Oroya, Peru **[24-160 B4].**
—fever **16-480b.**
ORPEN, SIR WILLIAM N. M. 16-935b; Pl. III. fig. 11 **18-PORTRAIT PAINTING**; **23-410b.**
Orpha, Wyo. **[24-146 G3].**
ORPHAN 16-935c; **3-760d**; pensions **16-149d** fol.; Russ. **19-699b.**
Orphan, The (Otway) **16-909a.**
Orphano, Balkans **2-982c.**
Orphan of the temple: *see* Angoulême, Marie Thérèse Charlotte, duchess of.
Orphans (sect) **17-410b.**
Orphelin de la Chine, L' (Voltaire) **7-580b**
Orpheum (vaudeville) **23-14a.**
ORPHEUS 16-935c; il. **1-711**, Sirens **20-719a.**
— Choir (Eng.) **5-621b** fol.
Orphic religion **15-337b**, **16-46b**; **16-49c**, **19-109b**, **10-850b**; Orpheus **16-936a.**
Orphir, Scot. **[24-18 E3].**
Orphism (paint.) **17-63c.**
Orphitianum senatus consultum **19-453d.**
Orphrey **5-314a**, Pl. I. fig 1 **23-WEAVING**; *see also* Parures
Orpierre, Fr. **[24-27 J3]**
ORPIMENT 16-936c; **2-436d.**
Orpine (bot) **6-645d.**
ORPINGTON, Eng. **16-936c.**
— (bird) **16-378a.**
Orr, James **8-704b.**
—, Minn. **[24-134 F3].**
—, N Dak. **[24-136 G1].**
Orre, Den. **[24-46 A2]**
Orrefors Bruck (factory, Swed) **10-407b**, Pls. VII., VIII , IX. **10-GLASS.**
Orrel, Lancs , Eng. **23-592b.**
— (arch.) **16-899a.**
ORRERY, CHARLES BOYLE, 4th earl of **16-936c**
—, John Boyle, 5th earl of: *see* Cork and Orrery.
—, **ROGER BOYLE**, 1st earl of **16-936c**, **7-602a.**
— (instru) **16-936d.**
Orrh, lake, Fin. **[24-48 C2].**
Orrhoel (tribe) **17-577a**
Orrhoene, dist., Mesop.: *see* Osroene.
Orrick, Mo **[24-140 C2].**
Orrin, N Dak **[24-136 D1].**
—, glen, Scot. **[24-18 D4].**
—, riv., Scot. **19-563a.**
Orrington, Me **[24-96 D4].**
ORRIS-ROOT 16-937a.
Orrs, Ga **[24-114 B3].**
—, isl., Me. **[24-96 C5].**
Orrskog, Swed. **[24-45 G1].**
Orrstown, Pa. **[24-107 D3].**
Orrtanna, Pa **[24-107 D4].**
Orrville, Ala. **[24-118 B3].**
—, O. **[24-124 D3].**
Orry (k. of Man.) *see* Gorse.
Orry, Eugeni d' (writ.) **21-163a.**
Orsa, Swed. **[24-43 G6].**
Orsat apparatus **5-408d** fol.
Orseoli (fam) **23-61d.**
Orsett, Ess., Eng. **[24-15 D4]**
ORSHA, U.S.S.R. **[24-48 D4]**; **16-937a.**
Orsi, Paolo (archae.) **20-605a** fol : **1-210c**, **21-712c.**
Orsières, Switz. **[24-30 C4].**
ORSINI (fam.) **16-937b**, **19-516b** fol.; Borgia **3-899c.**
—, Bracciano Paolo Giordano, duke of: *see* Bracciano.
—, **FELICE 16-937c**; Napoleon **12-804b**; plot **3-536b.**
—, Francesco, duke of Gravini: *see* Gravina.
—, Gentile Virginio **2-799b.**
—, Giacinto: *see* Celestin III. (pope)
—, Giovanni: *see* Nicholas III. (pope)
Orsini, Lodovico **1-101d.**
—, Matteo (states.) **16-937b.**
—, Napoleone (card.) **16-937b.**
—, Piero Francesco (Vincenzo Maria): *see* Benedict XIII (pope).
—, Virginio **16-937c.**
— plot (Eng. law-suit) **4-26d**
Orsk, U.S.S.R. **[24-49 J4].**
Orson (myth.) **22-949c.**
—, Pa. **[24-107 F2].**
Orsona, Sp.: *see* Orsuna
Orsova, Rum. **[24-53 B3].**
Orsted, Djursland, Den. **[24-46 C2].**
—, Funen, Den. **[24-46 C3]**
Orsza, U.S.S.R., *see* Orsha
Országh, Pavel: *see* Hviezdoslav.
Orszeszko, Eliza: *see* Orzeszko, Eliza.
Orta, Garcia de (au.) **7-319d**
—, It. **16-937d.**
ORTA, LAKE OF, It. **[24-34 B2, 24-186 D4]**, **16-937d.**
Ortach, isl., Chan. Is. **5-229a**
Orta-hissar (mosque, Trebizond) **22-444c.**
Ortalina polycephala *see* Chachalacas.
Ortalis (bird) described **10-930b.**
Ortegal, cape, Sp. **[24-32 B1]**
Ortega y Gasset, José (au) **21-160d.**
Orteig, Raymond B. **14-140c.**
Orteles, mt., It. **[24-34 C1].**
ORTELIUS (Ortels, Wortels), Abraham **16-937d.**
Ortelsburg, Ger. **[24-40 E2].**
Ortenberg, Ger **[24-38 E3].**
Ortensia **21-446a.**
Ortgies, Franz Hermann **16-351c.**
Orth, Johann (of Tuscany) *see* John Nepomuck Salvator.
Orthagoridae (dynasty) **20-613c.**
ORTHEZ, Fr. **[24-26 C4]**; **16-938b.**
— (battle, 1813) **17-470d.**
Orthia, (myth) *see* Artemis
Orthis rustica (zool) Pl. fig. 13 **3-BRACHIOPODA.**
Orthite (min.) **20-50b.**
Orthoantimonic acid **2-68b**
Ortho-arsenic acid **2-436c**
— benzoicsulphinide **19-702c**
— benzoquinone (chem.) dyes **7-799a.**
Orthoboric acid **3-902a.**
Ortho carbonic ester (chem.) **4-839b**
Orthocentre (geom.) **22-461b.**
Orthoceras (fossil) fig. 17 **5-153a.**
Orthochlorites (min.) **5-609c.**
Orthochromatic filter **9-239c**
Orthochromatic plate (phot) **17-797a**; **17-814c**; *see also* Isochromatic.
ORTHOCLASE (min.) **16-938b**, **15-428b**, **7-500a**, **2-794c** melt pt. **15-525c**; thyolite **19-271c**
Ortho-coumaric acid **6-580a**
— -cousin (kinship) **6-612b** fol., marriage **6-613b.**
— -cresol **6-670c.**
— -diphenylene methane (chem.) *see* Fluorene.
Orthodon microlepidotus *see* Minnow.
ORTHODONTIA 16-938c.
ORTHODOX EASTERN Church 16-938d; ambo **1-740d**; archbp. **2-263b**, arch **5-35c**, bp. **3-657c**, Boris I **3-904d**, Bulg. **4-302b**; **1-30a** calendar **4-572d**; canon law **4-756d**; church dedication **7-130b**; council, Basle **3-168a**; deaconess **7-06b**; England, church of **19-236c**, **8-475d**; fans **9-65d**; hymns **12-14b**, Japan **12-928d**; independence **3-171b**; **5-636c** Lucaris **14-456a**; middle ages **5-679d**; missions **15-508a**; monasteries **2-628c** oecumenical councils **6-591a**; tonsure **22-285a**; vestments **23-110b**; fig 7 **23-112**, Yugos. **23-916c**; *see also* Church History; Christianity; Roman Catholic Church; etc.; *and under* Bulgaria, Greece, Serbia etc.
—: *Doctrines and Creeds* **16-939c**; absolution **1-65b**; catechisms **5-26c**; celibacy **5-95a**; Holy Spirit **11-685d**; liturgy **14-226b**; uncreated light **11-533c.**
—: *Rome*: schism **19-436a** fol.; Pope Alexander IV **1-559a**; Vatican **23-8b.**

ORTHODOX: *Russia* **19-750c; 8-409d;** introduced **13-374d;** Muscovy **19-714c** fol.; Nikonianism **19-716b;** disestablishment **19-700a.**
Orthodox Missionary Society (Moscow) **15-598a.**
Orthodoxy **11-499a** fol.
Orthodromic line (cartog.) **14-836b.**
– projection **14-847c.**
ORTHOGENESIS 16-942a; 8-916b.
Ortho-gneiss **10-450d** fol.
Orthogonal projection **15-72d.**
— system **7-367c;** of curves **6-235a;** fig. 2 **6-234.**
Orthographic projection **7-631d, 7-254c, 17-616d** fol.; **14-846c.**
Orthography (maps) **14-836a;** Egy. **11-546c;** drawing **6-813b.**
Ortho-hydroxyazobenzene **2-828c.**
Orthomorphic projection (cartog.) **14-849d** fol.
— representation (geom): *see* Conformal representation.
Orthonectida (zool.) **15-802b.**
ORTHOPAEDIC SURGERY 16-942b; *see also* Manipulative surgery.
Orthophosphoric acid **17-779b**
Orthophthalic acid: *see* Phthalic acid.
ORTHOPTERA (zool.) **16-944a.**
Orthoptic curve **6-897a.**
Orthorhombic amphiboles (min.) **1-840c.**
Orthorhombic (crystall.) bipyramid figs. 54, 55 **6-817;** lattice fig. 4 (VIII.) **23-852;** system **6-816d** fol., **22-297b.**
Orthorrhapha (zool.) **7-412c.**
Orthoschist (geol.) **20-71a.**
Orthoscopic view (optics) **3-585b.**
Orthosurgery **3-744d.**
Orthragno (myth.): *see* Verethragna
Ortigão, Ramalho (au.) **7-883a**
ORTIGUEIRA, Sp. **[24-32 C1], 16-945b.**
Orting, Wash **[24-150 C3].**
Ortinus orca (zool.) *see* Killer
Ortiz, Mex. **[24-158 C2].**
—, Colo **[24-147 D4].**
–, N Mex. **[24-148 C3].**
— Venez. **[24-162 D2].**
Ortlibarii (sect) **12-381b.**
Ortlieb (myth.) **16-409b.**
ORTLER, mt. range, Tirol **16-945c.**
— Spitz, mt., Alps **[24-186 F3]**
Ortley, N.J. **[24-105 B3].**
, S Dak. **[24-137 G1].**
ORTNIT (OTNIT) (myth.) **16-945d; 11-509b.**
Orto, Vincenzo dell' (arch.) **19-1002a.**
ORTOLAN 16-945d.
Orton, Arthur (imposter), **9-704a.**
–, Ark **[24-120 B4].**
, S.Dak. **[24-137 D2].**
–, Westm., Eng. **[24-13 B3].**
ORTONA, It. **[24-34 E3]; 16-946a.**
Ortonville, Mich. **[24-131 H7].**
—, Minn. **[24-135 B6].**
Ortrand, Ger. **[24-39 J2].**
Ortrask, Swed. **[24-42 J4].**
Ortrud (char., opera) costume il. **6-514.**
Ortygia, isl., Medit. **21-711b;** *see also* Delos.
Oruani, N.Z. **[24-172 F3].**
Oruba, isl., W.I., *see* Aruba.
Orum, S.C. **[24-113 E2].**
ORUEO, dept., Bol. **[24-162 D7]; 16-946a.**
Oruro, Bol. **[24-162 D7].**
ORUS (gram.): *see* Orion *and* Orus.
Orvanno, riv., Fr. **[24-25 H3].**
ORVIETO, It. **16-946b, 23-246d;** Card. de Braye **8-23d;** cathedral **10-547c;** fig. 2K **10-545;** mosaics Pl. I. fig 2 **15-MURAL PAINTING;** pottery **10-809c;** vault **23-17a;** *see also* Volsinii.
Orvilla, Miss. **[24-119 A4].**
Orville, A. d' (chess player) **5-434d.**
Orvisburg, Miss. **[24-119 C5].**
Orviston, Pa. **[24-106 D2].**
Orwell, Cambs., Eng. **[24-15 C3].**
—, N.Y. **[24-103 D2].**
—, O. **[24-124 E2].**
—, Pa. **[24-107 E2].**
—, Vt. **[24-97 A3].**
—, riv., Suff., Eng. **[24-15 E3].**
Orwood, Miss **[24-119 C1].**
Orya barbarica (centipede) fig. 2 **5-122.**
Oryeteropodidae: *see* Aardvark.
Oryeteropus (zool.) **1-4a.**
— aethiopicus: *see* Northern aard-vark.
— capensis *see* Cape aardvark.
— gaudryi (fossil) **7-951d.**
Oryctolagus cuniculus (animal): *see* Rabbit.
Oryekhav, U.S.S.R. **[24-49 E5].**
Oryekhovo, Bulg. **[24-53 B4]**
Orygiuae (zool.) **2-22d.**
Orygynale Cronykil of Scotland (Wyntoun) **23-826a.**
Oryokko, riv, Kor. **[24-74 D3].**
ORYX (zool) **16-946d, 19-791b**
–, Arabian **3-553a**
— algazel. *see* White oryx.
— beatrix: *see* Wild cow.
— beisa. *see* Beisa.
— gazella: *see* Gemsbuck.
Oryza (bot.) **10-654d.**
Oryza sativa. *see* Rice.
Oryzeae (bot.) **10-657a.**
Oryzomys *see* Rice-rat
Orzechowski, Stanislas (bp.) **18-163a.**
ORZESZKO (Orszeszko), Eliza **16-946d**
O S. (abbrev.) **1-25d**
Os, Nor. **[24-43 B6].**
Os (chem.) *see* Osmium.
O.S.A (abbrev) **1-25d.**
Os acetabuli. *see* Cotyloid bone.
OSAGE (tribe) **16-946d;** Pl II fig 7 **16-NORTH AMERICA,** oil-lands **17-402d.**
—, co, Kan **[24-142 G3].**
—, co, Mo. **[24-141 F3]**
—, co, Okla **[24-143 G2].**
—, Indian reserva, Okla. **[24-143 G2].**
—, Ark **[24-120 B1]**
–, Ia. **[24-138 E1]**
–, Okla **[24-143 G2]**
—, Wyo. **[24-146 H2]**
—, riv., Kan. **[24-142 H3];** Mo **[24-140 C3].**
— City, Kan. **[24-142 G3].**
— Ironworks, Mo. **[24-140 E3].**
— **ORANGE 16-947a, 15-787c; 12-474c.**
Osai Apoko (Ashanti, k.) **2-505a**
— Toto Kwadwo (Ashanti k.) **2-505a**
— Tutu (Ashanti, k.) **2-505a**
Osaka, preft., Jap. **[24-74 J6].**
OSAKA, Jap. **[24-74 J6], 16-947a, 7-19a; 6-569c; 20-909a; 12-897b.**
Osaka Asahi (Jap. news) **16-354c.**
Osaka Mainichi **16-354c.**
Osaka Shōsen Kaisha (Jap. co.) **12-905b.**
Osakis, Minn. **[24-135 C6].**
Osam, hill, India **13-295b.**
Osann, Arthur **17-673b.**
OSAWATOMIE, Kan. **[24-142 G3], 16-947b.**
Osazone (chem.) **4-834a; 9-288d.**
O S.B. (abbrev.) **1-25d.**
Osbernville, Ill **[24-128 C4].**
Osborn, Sir Danvers (Brit. gov.) **18-395b.**
—, Henry (gov. Nfd.) **16-203b.**
—, **HENRY FAIRFIELD 16-917c; 15-713a** fol.; **17-111a** fol.; **14-749d; 21-875a.**
—, S. (navig) **2-294c; 2-296a.**
—, Miss. **[24-119 D2].**
—, Mo. **[24-140 C2].**
—, N.C. **[24-112 F3].**
—, O. **[24-125 A4].**
—, S C. **[24-113 D4].**
Osborne (fam., dukes of Leeds): *see* Leeds.
—, C.C. (geol.) **5-870d**
—, Francis (au.) **5-474b.**
—, H. M. (athl.) **16-781d; 2-672d.**
—, Malcolm (art.) **8-748c.**
—, Sir Peter **5-231b.**
—, T. B. (chem.) **14-734c.**
—, Thomas M. (ref.) **18-518d** fol.; **12-128a.**
Osborne, W. V. (labor leader) **22-375d.**
—, co., Kan **[24-142 D2].**
—, Kan. **[24-142 D2].**
— (biscuit) **3-654b.**
OSBORNE (mansion, I. of Wight, Eng) **[24-15 B5]; 16-947d, 23-126c.**
— judgment (Eng. law) **22-375c; 8-552a.**
Osbornsville, N.J. **[24-105 B2]**
Osbournby, Lincs., Eng. **[24-14 C3].**
Osbourne, Lloyd (writ.) **21-402c.**
Osca, Sp: *see* Huesca.
Os calcis (anat.) **20-730c.**
Osca Lingua **4-823a; 19-791a.**
OSCAN (dialect) **16-947d,** alphabet **1-682d,** fig 4 **1-681,** in Campania **4-674c,** inscriptions **18-203c,** cf. Umbrian **22-679d.**
OSCAR I. (of Swed. and Nor) **16-948c, 21-649c, 16-554c, 5-280c**
OSCAR II 16-948d, 21-650d, — F W.G Adolphus (duke of Scania, prince of Swed) **11-12a**
—, Ky. **[24-116 A3]**
—, La. **[24-121 C3]**
—, Okla. **[24-143 F5].**
—, Pa. **[24-106 B3].**
—, mts, W. Aus., Austr. **[24-168 C2].**
Oscarella (bot.) **12-552c** fol
OSCEOLA (chief) **16-949a 9-399d.**
—, co., Fla. **[24-115 G3].**
—, co., Ia. **[24-138 B1].**
–, co, Mich **[24-131 F6].**
–, Ark. **[24-120 F2].**
–, Ia. **[24-138 D3]**
—, Ill. **[24-128 C2].**
—, Ind. **[24-126 B1].**
—, La. **[24-121 D3].**
—, Minn **[24-135 D7].**
–, Mo **[24-140 D3].**
–, Neb. **[24-139 G3].**
—, Nev. **[24-153 F3].**
—, N.Y. **[24-103 E2]**
—, O. **[24-124 B3].**
—, Clearfield co., Pa. **[24-106 C3].**
—, Tioga co, Pa **[24-107 D2].**
–, S C **[24-113 D2]**
—, S Dak. **[24-137 G2].**
—, W Va. **[24-111 D3].**
—, Wis. **[24-132 A4].**
Oschatz, Ger. **[24-39 J2].**
OSCHERSLEBEN, Ger. **16-949b**
Oschiri, Sard. **[24-35 B4].**
Oschophoria **7-396a.**
Oscht, Ger. **[24-39 L1].**
Oschur (plant): *see* Madar.
Osci (people) **16-947d.**
Oscilla **8-688c.**
Oscillating brackett **20-636c.**
— cylinder **21-350a**
— sight, fig. 7 **20-637;** 20-637b.
Oscillation **3-676a, 8-190a, 21-183d, 15-355b; 14-644a,** fig 12 **22-82;** induction coil **12-274a,** radio **4-208d,** sound **21-8d, 22-857b.**
OSCILLATOR (radio) **16-949b.**
Oscillator (mech.) **14-101a, 18-876c; 8-192a.**
Oscillatoria fig. 4, K **1-599.**
Oscillator washing machine **23-379d.**
OSCILLATORY CIRCUIT 16-949b.
OSCILLOGRAPH 16-949b, 2-1003a; chronograph **5-652b** fol., photography **17-805b,** sound **10-620b**
Oscinella frit *see* Frit fly.
Oscinidae **7-113c**
Oscinis frit *see* Frit-fly.
Osco, Ill **[24-128 B2].**
Oscoda, co., Mich. **[24-131 G5]**
–, Mich **[24-131 H5]**
Osculating ellipse **5-62b.**
— plane **7-367a, 6-885d.**
Osculum pacis (kiss): *see* Pax.
Oscura, N Mex **[24-148 C5].**
—, mts, N Mex. **16-316d.**
Osea, isl, Ess., Eng **14-724d.**
Osek, Czech. **[24-39 J3].**
Osel, isl, Baltic **23-785d.**
—, isl., Est.: *see* Saaremaa.
— limestone **20-679d.**
Osen, Nor. **[24-44 D1].**
Oset, U.S.S.R.: *see* North *and* South Oset.
O.S.F. (abbrev.) **1-25d.**
Osgood, Ga. **[24-114 C5].**
—, Ia. **[24-138 C1].**
—, Ind. **[24-127 C3].**
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— Plain, O. [**24**-125 A4].
— Plains, Ill. [**24**-128 C4].
— Point, Me [**24**-76 E4].
— Point, Tenn [**24**-117 D2].
— Ridge, Ala. [**24**-118 A2].
— Ridge, Ind. [**24**-126 A2].
— Ridge, S Dak. [**24**-137 B1]
Pleasants, co., W.Va. [**24**-111 B2].
Pleasant Shade, Tenn. [**24**-117 F1].
— Site, Ala. [**24**-118 A1].
— Unity, Pa. [**24**-106 B3].
— Valley, Conn. [**24**-101 C1].
— Valley, Ia. [**24**-138 G3].
— Valley, Ill. [**24**-128 B1]
— Valley, Mont [**24**-144 A1].
— Valley, O [**24**-125 C3]
— Valley, Okla. [**24**-143 F3].
— Valley, Oreg [**24**-151 H3].
— View, Ill. [**24**-128 B3].
— View, Mo. [**24**-140 D4].
— View, Pa [**24**-107 D3].
— View, Tenn [**24**-117 D1].
Pleasantville, Ia. [**24**-138 D3].
—, Ind. [**24**-127 A4].
—, Md [**24**-109 C1]
PLEASANTVILLE, N.J. [**24**-105 B3]; **18**-72c
—, Pa [**24**-106 B2].
—, Tenn. [**24**-117 D2].
Pleasley, Derby, Eng. [**24**-14 B2].
PLEASURE: *see* Feeling, Psychology of, Hedonism; Ethics; *see also* **17**-762a; Cyrenaics **6**-936d; Epicurus **8**-649a; eudaemonism **8**-804b.
— boats **3**-764d.
— -pain principle **1**-52d; **18**-673c.
Pleasures of Hope, The (poem, Campbell) **4**-678b
Pleasures of Memory (poem, Rogers) **19**-384a.
Pleasures of Princes (Markham) **5**-943b.
Pleasureville, Ky. [**24**-116 E2].
Pleasure wherry **3**-761d.
Pleaux, Fr. [**24**-26 F2].
Plebe (U.S. student) **22**-850a.
Plebeians (Rom.): *see* Plebs
Plebelus, *see* Popular Latin.
Plebiscita (Rom.) **6**-106b, **19**-448c.
PLEBISCITE 18-72c
PLEBS 18-72d, **19**-477c fol.; **19**-505a
Plech, Ger. [**24**-30 G4].
Plecoglossus **20**-823a
— altivelis: *see* Ayu
PLECOPTERA 18-72d.
Plecostomus spinosissimus (zool.). *see* Raspabalza.
Plecotus *see* Long-eared bats
Plectascales **9**-927d; **22**-507a.
Plectenchyma **9**-924a
Plectobasidiales **9**-927d.
Plectognathi **9**-325b.
Plectoptera *see* May-fly; Ephemeroptera
Plectorthis *see* Orthis rustica
Plectrophenax nivalis: *see* Snow bunting.
Plectropterus: *see* Spur-winged goose.
Plectrude (Frankish q.) **5**-293b; **19**-834c
PLECTRUM 18-73a; Pl. VII. figs. 3, 4 **12**-IVORY CARVING.
PLEDGE (PAWN) (law) **18**-73b, **17**-403a, **19**-453b; Assyrian **2**-865b; Babylonian **2**-863b *see also* Vadium.
Pleegzoon, De (Lennep): see *Adopted Son, The.*
Pleekschans Jan: *see* Rainis, Jan.
Plegadis falcinellus· *see* Glossy ibis.
PLEHVE, VIATSCHESLAF K. 18-73b, **19**-724c.
"Plelad" (Brit. ship) **2**-935b.
PLEIAD (Gr. lit.) **18**-73c; **5**-774a.
Pléiade, The (Fr. lit.) **9**-784a; **7**-78c; **19**-526b; **7**-697d fol.
PLEIADES (myth.) **18**-73d.
— (astron.) **16**-185d; **21**-332c; **8**-140d· *see also* Sirius.
Pleikari, Bor. map **3**-905.
Plein air school (art.) **3**-103c; **14**-796a.
Pleine-Fougères, Fr. [**24**-24 D3].
Pleinfeld, Ger. [**24**-39 F4].
Pleisse, riv., Ger. [**24**-39 H3]; **13**-804a, **20**-32b.
Pleistarchus (of Sparta) **17**-400a
PLEISTOCENE 18-73d; **22**-727c, **18**-473d fol.; fauna **8**-834d, **23**-966b; Pl. I. fig. 6 **22**-UNGULATA; Af. **1**-209c.
— **ICE AGE**: *see* Glacial Period.
Pleistus, stream, Gr. **7**-174a.
PLEKHANOV, GEORGY V. 18-74a, **3**-824a fol.
Plélan, Fr. [**24**-24 C3].
Plélan-le-Petit, Fr. [**24**-24 C3].
Plemmirio, Sic **20**-605b.
Plenary indulgence **12**-275b.
Plenciz, M. A **2**-900d
Plénée-Jugon, Fr. [**24**-24 C3].
PLENER, ERNST VON 18-74b
Pléneuf, Fr [**24**-24 C3].
Plenipotentiary **7**-407b.
Plenius, Roger **17**-895d
Plenty, bay, N.Z. [**24**-172 F2].
Plentywood, Mont. [**24**-144 F1]
Pleochroic haloes (min.) **15**-526b.
Pleochroism **6**-425d; **6**-826d.
Pleodorina **18**-632a
Pleomorphism **2**-901a.
Pleonandrae **16**-849b.
Pleonaste **21**-229c.
Plerguer, Fr. [**24**-24 D3]
Plérin, Fr. [**24**-24 C3].
Plerlosquria **19**-189d
Plerocercoid **21**-804c
Plerome (bot) **18**-12b.
Plerotes **5**-598a
Pleshcheyevo, lake, U.S.S.R. **23**-231a
Pleshey (castle, Eng.) **8**-725b.
Plesiadapidae **14**-754a
Plesihippus **8**-672a.
Plesiosauria. *see* Sauropterygia.
PLESIOSAURUS 18-74c, **13**-194a, **17**-107d, **19**-194c.
Plesnoy, Fr. [**24**-25 L].
Pless, dist., Upper Silesia **20**-653b.
—, Tenn [**24**-117 G1].
—, convention and treaty of (1915) **4**-366b.
Plessé, Fr [**24**-24 D4].
Plessis, John du, 7th earl of Warwick· *see* Warwick.
Plessis, François du, seigneur de Richelieu **19**-291d.
—, N Y. [**24**-103 E1].
Plessis les Tours, treaty of (1580) **11**-657d
Plessis-Praslin, César de Choiseul, comte du: *see* Choiseul, César, duc de.
Plessisville, Que., Can. [**24**-89 C2].
Plessite **15**-311d.
Plessur, riv., Switz. [**24**-31 H3].
Plestin, Fr. [**24**-25 B3].
Pleszewo, Pol. [**24**-40 C3].
Pletcher, Ala. [**24**-118 C3].
Pletho. *see* Gemistus
Plethodon glutinosus **1**-838c
Plethodontidae **1**-837a.
Plethon (Pletho), Georgius· *see* Gemistus Pletho.
Plethora **15**-199c, **3**-743d.
Pleti (whip) **13**-448b.
Plettenberg, Walter von **19**-304d.
—, mt., Ger. **23**-816c.
Plettenbergs, bay, S.Af. [**24**-81 C4].
Plettenburg, Ger. [**24**-38 C2].
Pleudihen, Fr. [**24**-24 D3].
Pleumartin, Fr. [**24**-26 D1].
Pleura **19**-227a fol.; **19**-228d; **5**-969c
Pleuracanthus **20**-292a.
Pleura pophyses **20**-736a.
Pleureur, mt., Switz. [**24**-30 C4]
— (claquer) **5**-754c.
"Pleureuse, Le" Rodin, Auguste Pl. XII. fig. 5 **20**-SCULPTURE TECHNIQUE.
PLEURISY (PLEURITIS) 18-74d; **18**-100d
Pleurobrachia **6**-830c.
Pleurococela **10**-60c.
Pleurodeira **19**-190d.
Pleurodeles waltli: *see* Gallipato.
Pleurodictyum problematicum **7**-288c.
Pleurodira **22**-310a.
Pleurodont (tooth) **21**-874d fol.
Pleurogona **22**-550c.
Pleuromeia **17**-84a.
Pleuron **6**-800a.
Pleuronectes (zool.): *see* Plaice.
— flesus: *see* Flounder.
— stellatus **9**-403d.
PLEURONECTIDAE 18-75b, **9**-324d.
Pleuronectinae **9**-324d.
PLEURO-PNEUMONIA or **Lung-plague 18**-75b.
Pleuropogon Sabinii **10**-658a.
Pleuropterygii **20**-203a.
Pleurosauria **19**-189b.
Pleurothallidieae **16**-849c.
Pleurotoma **10**-66c.
Pleurotomaria **10**-63a; **10**-60a; fig. 4 **10**-59.
Pleurotomariidae **10**-68d.
Pleurotomas **15**-584b.
Pleurotremi **20**-203a.
Pleurtuit, Fr. [**24**-24 C3].
Pleven, Bulg.: *see* Plevna.
Plevlje, Yugos [**24**-52 D3].
Plevna (Pleven), dist., Bulg. [**24**-53 C4]
—, Ala [**24**-118 C1].
PLEVNA (PLEVEN), Bulg. [**24**-53 C4]; **18**-75d, **9**-531b; **19**-768b.
—, Kan. [**24**-142 D4].
—, Mo [**24**-141 E2].
—, Mont. [**24**-144 F2].
—, Ont., Can. [**24**-90 D2].
Plexus **23**-29b.
Pleyben, Fr. [**24**-25 B3].
Pleydenwurff, Wilhelm **23**-694b.
PLEYEL, IGNAZ J. 18-76c.
Pleystein, Ger [**24**-39 H4].
Plianuchenia **22**-642b.
Plicae recti. *see* Houston, Valves of.
Plica fimbriata **22**-281b.
— semilunaris **1**-881d.
Plicate leaf **13**-828d; fig. 24 **13**-826.
Plica triangularis fl. **17**-696.
PLIEKSANS, JAN 18-76d.
PLIMER, ANDREW 18-76d; **15**-540a.
—, Nathaniel **18**-76d.
Plimouth Plantation, History of (W Bradford) **1**-784d; **3**-1005d.
Plimpton, J. L. **19**-388d.
PLIMSOLL, SAMUEL 18-77a; **20**-545d; **8**-538b
— line (naut) **8**-538b, **9**-729a; *see also* Freeboard.
Plinius, Caecilius S.: *see* Pliny the Younger.
—, Secundus G.: *see* Pliny the Elder
Plinlimmon, mt., Wales. *see* Plynlymon.
PLINTH 18-77b.
Plinthia **14**-837d.
Pliny, W.Va. [**24**-111 A3].
— **THE ELDER 18**-77b, **5**-776b; amber, elec properties of **8**-182c, distillation **7**-427d; encaustic painting **8**-421b fol., essenes **8**-717d fol ; flax preparation **9**-363c; lubricants **14**-453d, *Natural History* **8**-424a fol.; Sabbation riv. **19**-785c.
— **THE YOUNGER 18**-78c, **13**-752c Bithynia and Pontus **3**-673a, Como **6**-139d; Martial **14**-983a; school **20**-99c, Suetonius **21**-515c; Vesuvius **23**-113b.
PLIOCENE 18-80a; Africa **1**-209c; flora **17**-93c; Pliocene System flora Pl. II, **17**-PALAEOBOTANY; fauna **4**-901b; **17**-112a; **19**-253c; in U. S. **22**-727b.
Pliohippus **8**-672a.
Pliohylobates eppelsheimensis **18**-490b.
Pliopithecus antiquus **18**-490b.
Pliotrema **20**-466c.
Plique-à-jour (enamel) **8**-417c fol , **8**-419a fol.
Pliva, riv., Yugoslavia **12**-870a.
P. L. M. (ry.): *see* Paris-Lyon-Méditerranée.
Plocéidae **23**-455c.
Plochingen, Ger. [**24**-38 E5].
PLOCK, Pol. [**24**-40 D2]; **18**-81b; battle (1914) **14**-296d.
Plöcken, pass, Alps **1**-695a.
Plöcklstein, Germany [**24**-39 J5].
Plodia inter punctella: *see* Indian meal moth.
PLOERMEL, Fr. [**24**-24 C4], **18**-81b.
PLOESTI, Rum. [**24**-53 D3], **18**-81b.
Ploeuc, Fr. [**24**-24 C3].
Plomb du Cantal, mt., Fr [**24**-27 F2]; **4**-763d.
PLOMBIERES, Fr. [**24**-25 N4]; **18**-81c; **12**-750c.
Plomb-plomb (nick.): *see* Bonaparte, Napoleon, Joseph C. P.
Plomo, Ariz. [**24**-149 E7].
Plomosa, mts., Ariz. [**24**-149 A5].
Plön, Ger. [**24**-36 E1].
"Plongeur" (submarine) **21**-495a.
Plon-Plon (nick.): *see* Bonaparte, Napoleon, Joseph C. P.
Plonsk, Pol. [**24**-40 E2].
Plössberg, Ger. [**24**-39 H4]
Plössiea floribunda: *see* Boswellia papyrifera.
Plotbiskteke, (Slb.) U.S.S R [**24**-57 N2].
Plot Discover'd, A. (play, Otway). see *Venice Preserved.*
PLOTINUS (philos.) **18**-81c, **1**-582c, Logos **14**-336b, Longinus **14**-379d; Neo-Platonism **8**-767c; **18**-63a, Porphyry **18**-243a.
Plotosidae **9**-316d; **5**-30b fol
Plotosus **9**-316d.
PLOTSK, Pol : *see* Plock
Plotters (Eng. pol.) **15**-772b
Plotting **5**-303b.
Plotting machine **21**-395c fol
Plotus anhinga: *see* Indian snake-bird.
Plouagat, Fr. [**24**-25 B3].
Plouaret, Fr. [**24**-25 B3].
Plouay, Fr. [**24**-25 B4]
Ploubalay, Fr. [**24**-24 C3].
Ploudalmezeau, Fr. [**24**-25 A3].
Ploudiry, Fr. [**24**-25 A3].
Plouescat, Fr. [**24**-25 A3]
Plouézec, pt., Fr. [**24**-24 C3]
Ploug, Carl **7**-34b.
Plougastel, Fr. [**24**-25 A3]
PLOUGH: *see* Cultivating Machinery; *see also* **8**-297b **6**-850d, early Am. **1**-375b, evolution **1**-371a; **15**-49c neolithic **2**-244b fol.; Pl II fig 2 **23**-VENEZUELA electric **8**-161a fol., soil, air **20**-930c.
- - (astron.): *see* Charles's wain.
Plough and the Stars, The (play: O'Casey) **7**-611a.
Plough bolt **3**-827d.
Ploughman's Complaint (poem) **14**-341b.
Ploughman's Prayer **14**-341d
Ploughman's spikenard **21**-210c.
Plough Monday **15**-691a.
Plough-tax (Eng. law). *see* Carucage.
Plouguenast, Fr. [**24**-25 C3]
Plouha, Fr. [**24**-25 C3].
Plouharnel, Fr. [**24**-25 B4]
Plouhinec, Fr. [**24**-25 A3]
Plouigneau, Fr. [**24**-25 B3].
Plouton (myth.): *see* Pluto
Plouton-Kore (myth): *see* Pluto-Cora.
Plouzévédé, Fr. [**24**-25 A3]
Plovdiv, dist., Bulg. [**24**-53 C4].
—, Bulg.· *see* Philippopolis
Plover, Ia. [**24**-138 C2].
- -, Wis. [**24**-133 D5].
PLOVER (zool.) **18**-83a; **6** 368d, **8**-26b, d.
Plow, Song of the (poem Hewlett) **11**-535c.
Plowce, Russ. **18**-135a.
PLUCKER, JULIUS 18-83b co-ordinates **6**-391d; curv **6**-887a; electricity **8**-193d **8**-267d
— tube **21**-183a.
Plucking (geol.) **10**-374d.
Pluessen Meer, lake, Holl [**24**-28 D2].
Plug and ring gauge **22**-292d
Plug-bayonet **3**-242c.
Plug-cock fig. 7 **22**-904
Plugging (elec.) **8**-308d; **8** 310c.
— chisel fl. **5**-601.
Plug lead (masonry) fig. 1 **15**-22.
Plug Riots (1842) **5**-309d.
— tap (tool) **20**-193d.
Plug-tree **21**-353a.
Plum, Wash. [**24**-150 G3].
—, isl., N.Y. [**24**-102 H4], **21** 94a.

PLUM 18-83c; 19-550d; bush variety 9-880c, Gt. Brit. 9-879b; 9-879c, grass orchards 9-880a; Japan 12-897d, Serbia 2-980c; in U. of S.Af. 9-883a; U.S. 9-884c fol.; 9-885b; Yugoslavia 23-921b.
Plumage: *see* Feathers.
Plumas, co., Calif. [24-154 C3].
—, Calif. [24-154 C3].
Plumassier 9-131c.
Plumatella fig. 12 18-196.
Plumb, S.Dak. [24-137 G3].
, Isl., Mass. [24-99 D1].
Plumbagineae 17-941d.
PLUMBAGO 18-84d; *see also* Graphite.
Plumbago drawing 17-461c; Pl. figs. 1, 2, 4 17-PENCIL DRAWING.
Plumbatae 22-311d.
Plumber's solder 20-939a.
Plumbi acetas 13-821a.
— carbonas 13-821a
Plumbichlorides 13-819d.
Plumbi Iodidum 13-821a.
PLUMBING 18-84d, 11-824c; 19-946b, 21-306c, 23-16d.
Plumbi oxidum 13-821a.
Plumbism 7-26c; *see also* Lead poisoning.
Plumb-line 10-130a.
Plumbojarosite 12-908d.
"Plumb-pudding in Danger, The" (caric., Gillray) Pl. II fig 1 4-CARICATURE.
Plum Branch, S.C. [24-113 B3].
Plumb rule 22-206a.
Plumbum album: *see* Tin.
— candidum. *see* Tin
Plum cake, rich 4-541b.
City, Wis [24-133 A5].
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Plume, cr., Alta, Can. [24-91 C3]
Plumed Knight, The (nick.). *see* Blaine, James Gillespie.
Plume-hunting 16-918c.
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— poppy 18-220a
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Plumer, William 16-305a.
Plumeria acuminata. *see* Temple-tree.
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Plum Farmer 9-885c.
Plumfield, Ill. [24-129 C6].
Plum-leaf blister 18-84a.
Plummer, Henry 23-146c.
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Plummer block 3-260d fol., 18-392a.
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Plumpudding, isl., S.Af. [24-81 B3].
Plum pudding, Sunday 18-753b.
Run, Pa. [24-106 C4].
Plumsteadville, Pa. [24-107 F3].
Plum Tree, Ind. [24-126 C2].
Plumule 21-380a; 10-655c; 20-275c.
Plum Valley, Colo. [24-147 G4]
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Plunder (mil.) 21-580d.
Plunge, Lith. [24-47 A3].
Plunge-cut grinder 14-583a.
Plunger" (submarine) 21-492c
Plunger pole pump 22-459d.
Plunging (sport) 21-666d.
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—, **WILLIAM C. P.**, 1st baron 18-87b.
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—, Joseph 8-601a.
Pluntèria (festival) 2-602a.
Pluperfect (gram.) 19-430c.
Plural, Formation of (lang.) 1-334a; 1-332c.
PLURALISM (philos.) 18-87d; Metaphysics 15-332d fol.
— (pol. sci.) 10-968a.
Pluralistic realism (philos.) 11-476b.
Pluralistic Universe, A (James) 12-884d.
Pluralities Act (Eng. eccl.) 1838 18-90b; 1850 8-401d.
— Acts Amendment Act (1885, Eng. eccl.) 18-90b.
PLURALITY (eccl. law) 18-90b.
— (pol., U.S.) 18-90b.
— **OF CAUSES** (logic) 18-90b; 5-63a.
Pluriglandular disorder 15-196d.
Plurium interrogationum (logic) 9-55d.
Pluscarden Priory, Scot 8-355a.
Plush, Oreg [24-151 E5].
PLUSH (fabric) 18-90c.
— copper ore (min.): *see* Chalcotrichite.
— pile (fabric) 20-671d.
Plusia gamma (insect): *see* Noctuid moth.
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PLUTARCH (of Chaeronea) (Gr. writ.) 18-90c; 10-776d, Amyot, trans 1-856b.
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Plutella maculipennis (insect): *see* Diamond-back moth.
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—, Temple of, Cyrene, N.Af. 6-938c
Pluto-Cora (Gr. deities) 16-46b.
PLUTO MONKEY (animal) 18-92a.
Plutonic complex (petrol.) 17-670c.
— rocks (petrol.) Leucite 13-972d; igneous 17-673d fol.
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"Pluton tenant Cerbère enchaîné" (sculp., A. Pajou) 17-68d.
Plützchau (missionary) 15-596b
PLUTUS (Gr. myth) 18-92a.
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Plymell, Kan. [24-142 B4].
Plymentun (monastery) 18-93d.
Plymley, Peter (pseud.): *see* Smith, Sydney.
Plymouth, Charles Fitz Charles, earl of 5-273c.
—, co, Ia. [24-138 A2]; 13-902d.
—, co., Mass. [24-99 D2].
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—, Conn. [24-101 B1].
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—, N.C. [24-112 J2].
—, N.H. [24-97 C3].
—, N.Y. [24-103 E3].
—, O. [24-124 C3].
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—, Utah [24-152 B1].
—, Vt. [24-97 B3], Coolidge 19-776c.
—, Wales 15-285c.
—, Wash. [24-150 F5].
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—, co., Fla. **[24-115 G4]**.
—, co., Ga. **[24-114 A3]**.
—, co., Ia. **[24-138 D3]**.
—, co., Minn. **[24-134 B4]**.
—, co., Mo. **[24-140 D4]**.
—, co., N.C. **[24-112 C2]**
—, co., Neb. **[24-139 G3]**.
—, co., Oreg. **[24-151 B3]**.
—, co., Tenn. **[24-117 G2]**.
—, co., Tex. **[24-123 G4]**.
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—, Mo. **[24-140 D4]**
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—, Mian. [**24**-135 F8].
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RACINE, Wis. [**24**-133 F7], **18**-870d, **15**-424b, **23**-678d.
, mt., Switz **16**-254a
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- - Observatory (Eng.) **16**-671c
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—, co., Tenn. [24-117 E1].
—, co., Tex. [24-123 F4]
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– , Que., Can [24-89 C2].
—, Wyo. [24-146 B1]
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– –, Mo. [24-141 G3]
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– –, **HENRY C. 19-358d**
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— Nicholas, Minn. [24-135 D6]
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— Stephen (cath., Vienna) **23-140d** fol.; **10-546c**.

— Stephen, Knights of **15-192d**.

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— Stephens, Ala. **[24-118 A4]**.

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- Stephens, Wyo. **[24-146 D3]**.

— Stephen's (church, Lond.) **14-352d**, **23-803d**.

— Stephen's (club, Lond.) **5-859d**; auction bridge rules **2-970d**.

— Stephen's College (N.Y.) **6-77a**.

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Sulpice, Creuse, Fr. **[24-26 F2]**.

- Sulpice, Switz. **[24-30 B3]**.

— Sulpice, Tarn., Fr. **[24-26 E4]**.

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— Taillefer, Fr **[24-27 J2]**.

— Tammany, La. **[24-121 E3]**

— Thècle, Que., Can. **[24-89 B2]**

- Thégonnec, Fr. **[24-25 B3]**

- Thomas, Ill. **[24-129 B5]**

- Thomas, Mo. **[24-141 E3]**

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- Thomas, N.Dak. **[24-136 G1]**.

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Thomas, Pa **[24-106 D4]**

— Thomas, Port. E. Af. **[24-82 A2]**.

- Thomas, W Af. **19-860b**.

— **THOMAS** (São Tomé), isl., W Af. **19-859c**

- **THOMAS**, isl., W.I. **[24-157 F3]**, **19-860d**, **23-191a**, Denmark **7-213c**, pop **23-535a**, Pl. figs 1, 4 **23-VIRGIN ISLANDS**

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— Thomas' College (Colombo) **6-38d**

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— Trivier-sur-Moignans, Ain, Fr. **[24-27 H1]**.

— Trojan-les-Bains, Fr. **16-769c**

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— Tropez, Fr. **[24-27 K4]**

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— Trophime (cath., Arles) **2-372c**, Pl XV fig. 2 **2-ARCHITECTURE**.

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— Tudwall (light, Wales) **14-97b**.

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— Urban, Switz. **[24-30 D2]**

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— Hacciferum: *see* Gulf weed.
— fish **9**-329b
Sargent, Charles S. **2**-226d; **3**-944b.
—, Dudley A. **11**-22b
—, Fitzwilliam **19**-998d.
—, John G. **22**-842c, **6**-374c.
—, **JOHN S. 19**-998c; **23**-411c; **2**-183c, **17**-55c, "Antarte" Pl IV. **15**-MURAL PAINTING; Boston Library **3**-934c, "Theodore Roosevelt" Pl. VII. fig. 26 **22-UNITED STATES**; "Wyndham Sisters" Pl. I. **18**-PORTRAIT PAINTING.
— —, Mary N. S. **19**-1001d.
— —, Winthrop **16**-735d.
— —, co., N.Dak. [24-136 G3].
— —, Mo. [24-141 E4].
— —, Neb. [24-130 E3].
— —, N.H. [24-97 C3].
— Bluff, Ia [24-138 A2].
Sargents, Colo [24-147 D3].
— —, O. [24-125 B4].
Sargis (writ.) **2**-384b.
Sargoda, India [24-65 C2].
Sargon I. (Babyl. k.) **4**-689a; **2**-855d.
SARGON (Assyr. k.) **19**-1000c, Cyprus **6**-932d, Hama **11**-115a, Kish **13**-417c, Samaria **19**-918a; **13**-47c.
Sarhad, dist., Pers. [24-63 E3].
Sar hou, Manchuria [24-69 L3].
Sari, dist., Pers. **15**-128b.
—, Pers. [24-63 C1], **17**-551d
Saria, isl., Gr. [24-54 E5]
SARI BAIR, BATTLE OF, 1915: *see* Dardanelles Campaign.
— Bair, mt., Gallipoli **7**-54a fol.
Sari Bar, Yugos.: *see* Antivar.
Saribas, riv., Bor. **3**-906b.
Saribu Saratua, mts., Bor. [24-72 D3].
Sarichef, cape, Aleutian Is. [24-156 G9].
Sarigny, J. C. L. de **8**-621a.
Sari Kamish (battle) **22**-757d.
—, lake, Sin-Kiang [24-68 C3].
Sarikol, dist., C.As. **19**-321c.
Sarik-kol, mts., C.Asia **13**-510d; *see also* Kashgar.
Sarin (Indian group) **4**-980d.
Sarine, riv., Switz. **9**-830b; *see also* Saane
Sariñena, Sp. [24-33 F2].
SARIPUL, Afg. **19**-1000d; map **1**-283.
— —, Pers. [24-63 B2].
Sāriputra-prakaraṇa (Aśvaghosha) **7**-578b.
SARI QAMISH, BATTLE OF, 1914 19-1000d, **5**-58d fol.
Śāriraka-mīmāmsā-bhāshya (Sankara) **19**-968c.
Saris, John **12**-938b.
Saris, Turk. [24-58 G3].
Sarisshaban, Gr. [24-55 D2].
Sari Sigla, bay, Dardanelles map **23**-782.
Sarissa (weapon) **14**-571c, **21**-741d.
Sarita, Tex. [24-123 F6].
Sarjek, mt., Swed. [24-42 H3]; **21**-636c
Sarji Anjangaon (treaty) **11**-18b.
Sarju, riv., India: *see* Gogra.
SARK, isl., Chan. Isls. **19**-1000d; **5**-229a.
—, riv., Scot. [24-10 C1].
Sarkad, Hung [24-51 G3].
Sarkan-tau, mts., C.As. **22**-206a.
Sark Bridge, Cumb., Eng. [24-13 A3].
Sarkoata, Sp.: *see* Saragossa.
Sarlat, Fr. [24-26 E3]; **7**-537d.
Sarles, N.Dak. [24-136 F1].
SARMATAE (SAUROMATae) (people) **19**-1001a, **20**-787d; **1**-496b; **8**-839b; **19**-712b; *see also* Iazyges.
Sarmatian Ocean, Eur. and Asia **4**-969d.
Sarmiento (Arg. pres.) **2**-320c.
— (Sp. hist.) **21**-72b.
Sarmiento (de Acuña), Diego, count of Gondomar: *see* Gondomar.
—, **DOMINGO F. 19**-1001b; **5**-494d; **19**-949b.
—, mt., Chil. **6**-363b; **22**-207c.
Sarmigetusa, Rum. **19**-688a.
Sarmizegethusa, Dacia **6**-970a, map **19**-501 (G2).
SARMOR, state, India: *see* Sirmur.
SARNATH, India **19**-1001c, **12**-213a; **12**-215a.
Sarnau, Wales [24-16 B2], **23**-291b
SARNEN, Switz. [24-31 E3]; **19**-1001d.
—, lake, Switz. [24-31 E3]; **19**-1001d fol.
Sarnen, League of (Switz) **21**-650b
Sarnen, White Book of (ms.) **19**-1001d.
Sarnen Aa, riv., Switz. **14**-458d.
Sārngadeva (schol.) **19**-970b.
SARNIA, Ont., Can. [24-90 A3], **19**-1001d.
SARNO, It [24-35 E4]; **19**-1001d, battle **9**-167d.
—, riv., It. **4**-674a.
Sarns (causeways) Cardigarshire, Wales **4**-852d.
Sarnus, It.: *see* Sarno.
—, riv., It.: *see* Sarno.
Särö, Swed. [24-44 D3].
Saromon, Fr. [24-26 D4].
Saroma, Wis. [24-132 B4].
Sarong (costume) **14**-717a; **3**-207c; **6**-552c, il **3**-208.
Saronic Gulf, Gr map **2**-606; map **2**-659, **2**-659d.
SARONNO, It. **19**-1001d.
Saros (astron.) def. **2**-582c; **7**-909d
Sarouk (carpet) **19**-624b.
SARPEDON (Sarpedoneum) **19**-1002a; **11**-706d.
SARPI, PAOLO 19-1002a; **17**-215d; **23**-64d.
SARPSBORG, Nor. [24-44 D2]; **19**-1002d.
Sarpsfos, falls, Nor. **16**-545c.
Sarpul, Pers. [24-63 C1].
Sarpy, co., Neb. [24-139 H3].
—, Mont [24-144 E3].
Sarr, dist., Eur. [24-38 B4].
SARRACENIA (SIDE-SADdle Flower) 19-1002d; **17**-971a, il. **17**-970c.
Sarraceniaceae **7**-61b; **19**-404d.
Sarracenia purpurea il. **17**-970.
SARRAIL, MAURICE P. B. 19-1003a; **19**-802c; **7**-683b; **21**-718c; Marne **14**-929d fol.
Sarralbe, Fr. [24-25 N3].
Sarrancolin, Fr. **11**-258b.
Sarran, Sud. **3**-104b.
Sarrasin (Fr. au.) **9**-789a.
SARRAUT, ALBERT P. 19-1003a.
Sarrazin (Fr. poet) **2**-996c.
SARRAZIN, JACQUES 19-1003c.
SARRAZIN, JEAN F.: *see* Sarasin.
Sarrebourg, Fr. [24-25 N3].
SARREGUEMINES, Fr. [24-25 N2]; **19**-1003c.
SARRE TERRITORY, Eur.: *see* Saar Territory.
—, Kent, Eng. [24-15 E4].
—, riv., Fr. [24-25 N3].
Sarria, Sp. [24-32 C1].
Sarrians, Fr. [24-27 H3].
Sarro, Fr.W.Af. [24-80 C3].
—, mts., Mor.: *see* Anti-Atlas.
Sarru-Kinu (Assyr. gen.): *see* Sargon.
SARSAPARILLA 20-1a; **17**-249a.
SARSFIELD, PATRICK 20-1b; **12**-600c.
—, Vict., Austr. [24-171 H6].
Sarsi (tribe) **4**-703a; d; **3**-681b.
Sarsina, It.: *see* Sassina.
Sarskaya, U.S.S.R.: *see* Tsarskoye Selo.
Sars-Poteries, Fr. [24-25 K1].
Sarstoon, riv., Guat. [24-150 G4].
Sarsuti, riv., India: *see* Saraswati.
Sart (dialect) **22**-618a.
Sartène, Cors. **6**-473d.
SARTHE, dept., Fr. [24-24 F4]; **20**-1d; **9**-585c.
—, riv., Fr. **14**-691c.
Sarti (It. comp.) **5**-421a.
Sartilly, Fr. [24-24 D3].
Sarto, Andrea del: *see* Andrea del Sarto.
—, Giuseppe (pope): *see* Pius X.
Sartorio (art.) **17**-464a; "The Crucifixion" Pl. fig. 8 **17**-PEN DRAWING.
Sartoris, Adelaide: *see* Kemble.
Sartorius (naval capt.) **18**-281d.
— (muscle) **15**-988b.
Sartor Resartus (T. Carlyle) **4**-881b fol.; **20**-6b; **8**-598b.
SARTS (tribe) **20**-2a
Sarubutsu, Jap. [24-75 N1].
Saru-gaku (mus.) **16**-478c.
Sarum, Use of (rel.) **14**-227d.
Saruma-ko, lake, Jap **23**-890d.
Sarum Breviary **4**-99c
Saruputu, Jap. [24-75 N2].
Sarur, Arab. [24-62 F3].
Sarury, Jap. [24-75 N2].
Sarus, riv., Asia M. **5**-705d; Rom. Emp. map **19**-501 (K4); *see also* Sihun.
Sarvar, Hung. [24-50 E3].
Sarvāstivāda school **1**-44d.
Sarvistan, Pers **17**-584d.
SARWAT PASHA, A. K. 20-2b; **8**-98b fol.; **8**-202c.
Sarw Madig, Arab. [24-62 D4].
Sary-Ishik-Otrav, desert, U. S.S.R. **13**-302d.
Saryk (carpet) **19**-626d.
Sarykamish, Turk. **13**-285c.
—, depression, Turkist. **4**-969d.
—, lakes, U.S.S.R. **22**-622c.
Saryk-mogal, pass, C.As. **22**-206c.
Sary-su, riv., Asiatic Russ. **21**-714c; **13**-302c.
Sary-tau, mt., U.S.S.R. **19**-991c.
Sary-tyur, pass, C.Asia **13**-514d.
Sarzana, Tomaso da: *see* Nicholas V. (pope).
SARZANA, It. **20**-2c; **9**-392a.
Sarzeau, Fr. [24-25 C4].
Sasa Baneh, Abyss. map **1**-71.
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Sasaks (people) **14**-345a; **2**-977b.
SASANA VAMSA 20-2c.
SASARAM, India [24-67 D2]; **20**-2d.
Sasawara, Tanganyika Terr. [24-83 G5].
Sasayama, Jap. [24-74 J6].
Sasbach (battle) **7**-779d.
Sasco, Ariz. [24-149 D6].
Sasebo, Jap. [24-75 F7]; **12**-924b.
Saseno, isl., Alban. **12**-817d.
Sash (window) **13**-124b.
— chain **5**-189c.
— pocket chisel il. **5**-601.
— ward **14**-269b.
Sasik, lake, Rum. [24-53 E3].
Sasine (register) **20**-177c.
Sask. (abbrev.) **1**-26a.
SASKATCHEWAN, prov., Can. [24-91 D2]; **20**-2d; **4**-694c; geology **4**-692b; government **17**-408a; *see also* Assiniboia.
SASKATCHEWAN, river, Sask., Can. [24-91 E3]; **20**-3c.
—, mt., Alta., Can. [24-91 B3].
—, University of (Can.) **22**-877d.
SASKATOON, Sask., Can. [24-91 E3]; **20**-3c.
Saskeram, lake, Sask., Can. [24-91 F3].
Saski Ogrod, Warsaw, Pol. **23**-378c.
Saskya: *see* Sa-kya.
Sass, Florence von **2**-944d.
Sassaby (animal) **2**-21d.
Sassafras, Md. [24-109 D1].
—, mt., S.C. **21**-83b.
—, riv., Md. [24-109 D1].
SASSAFRAS (tree) **20**-3d; **8**-721c; (nut) **16**-646b.
Sassandra, Iv.Cst. [24-80 C4].
—, riv., Iv. Cst. [24-80 C4]; **12**-845a.
SASSANID (Sassanian dynasty) **20**-3d; **18**-297c; **17**-580c fol.; **17**-589a; palace Pl. I. fig. 1 **23**-VAULT, arts and arch. **17**-564c; **21**-271d; **10**-100a; **16**-630a; lang. **17**-30c fol.; **1**-684a.
Sassar, pass, India [24-65 D1].
SASSARI, Sard. [24-35 B4], **20**-3d; **12**-761d; **12**-765b.
—, University of (Sard.) **19**-995c fol.
Sassawatisi, lake, Que., Can [24-89 B2].
Sassenage, Fr. [24-27 J2].
Sasseno, isl., Alban. [24-54 A2].
Sasser, Ga. [24-114 B5].
"Sasserno" (Stradivari) **21**-446d.
SASSINA, It. **20**-4a.
Sassnitz, Ger. [24-40 A1].
Sassone, Il (nick.): *see* Handel, George F.
SASSOON, SIR ALBERT A. D. 20-4a.
—, Siegfried **18**-113a fol.; **8**-600d.
— (dock, Bombay) **20**-4b.
Sassuhy, riv., Braz. [24-164 B4].
Sassuolo, It. [24-34 C2].
SASTRI, V. S. SRINIVASA 20-4b.
Sasun, dist., Arm. **2**-380b.
Sasuna, Jap. [24-74 F6].
Sas van Gent, Holl. [24-29 B3]; **11**-659c.
Satadugu, Fr. W. Af. [24-80 B3].
Satagydae (tribe) **17**-566d.
Satalla, Asia M. *see* Adalia.
Satan (spirit) **2**-102c; **1**-921a; Ahriman **1**-434b; Cathar **5**-31b; dualism **7**-694d; Jesus **13**-23c; Koran **1**-148c; *see also* Devil.
Satanail (rel.) **3**-779d.
Satano, cape, Jap. [24-75 G8].
Satanta, Kan. [24-142 B4]
Satan the Waster (Lee) **13**-865b.
Satapatha Brāhmana **3**-1013b
SATARA, India [24-67 B3], **20**-4c; **12**-190b.
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Satavhana (dynasty) **12**-187a.
Satchell, Elizabeth: *see* Kemble.
Sat-chō (faction) **12**-948d.
Sat Dagh, mt., 'Iraq [24-61 B1]
SATEEN 20-4d; **6**-552c; type of Fustian fig. 3 **9**-956.
SATELLITE 20-4d; **13**-191b; **20**-9a; **5**-91d.
Satem (langs.) **12**-257d; **12**-264c.
Säter, Swed. [24-45 F1].
Satevo, Mex. [24-158 C2].
Sathas, K. N. (philol.) **10**-847b.
Sätherberg, Carl Herman **21**-658b.
Sather campanile (Univ. Calif.) **4**-598c.
Sathon (Antisthenes) **20**-920c.
Sathonay, Fr. [24-27 H2].
Sati (sacrifice) **12**-111c.
SATIE, ERIK L. 20-4d.
Satilla, riv., Ga. [24-114 E6].
Satillieu, Fr. [24-27 H2].
SATIN 20-4d; **4**-223d fol.; **23**-456c.
Satinas, Mex. [24-158 D2].
Satin bead **3**-252c.
— flower: *see* Chickweed.
"Satin Gown" (Ter Borch) **21**-946b.
SATIN-SPAR 20-5a; **11**-43a.
— walnut **21**-660b; **22**-221a.
— **WOOD 20**-5b; **1**-896a.
Satiras (Mirando): *see* Cartas.
SATIRE (lit.) **20**-5b; **3**-653b, Anglo-Norman **1**-946b; English **7**-687d; **22**-820b, French **2**-790d fol.; Greek **2**-348a; Rom. **18**-748b; **18**-229a; **11**-741a, **14**-461c; **14**-462c; pictorial **4**-865a.
Satire, Essay on (Mulgrave) **7**-686d.
—, *Ménippée* (pamphlet) **9**-624c.
—, *Ménippée* (pol. protest) **9**-786b.
— *of the Three Estattis* (Lyndsay) **7**-589d.
Satires (Donne) **7**-530b; 531d.
— (Horace) **20**-5c; **13**-750c.
— (Juvenal) **13**-228d.
— *of Circumstance.* (Hardy) **8**-600a; **11**-193d.
Satiricon (Petronius): *see Satyricon.*
Satisfactio (Dracontius) **7**-568a.
SATISFACTION (law) **20**-6c, **19**-10d.
— (psych.) **2**-137b.
— theory (theol.) **2**-652c.
Sativa orientalis (oat) **16**-665a.
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Satley, Eng. [24-13 C3].
Sat Mahal Pāsāda **12**-224d.
Satmala, hills, India **3**-833b.
Sātmar (Szatmar Nemeti), Rum. [24-53 B2].
Satna, India **19**-241d.
Satnami Chamars (caste) **5**-445b; **4**-985d
Sato, Ill. [24-129 C6].
—, S. C. [24-113 C3].
Satolah, Ga. [24-114 C2].
Satomi Ton (writ.) **12**-900a.
Satow, Sir Ernest **22**-442c
SATPURA, hills, India **20**-6d.
—, mts., India [24-67 B2, 24-182 D4]; **3**-833b.
— plateau, India **3**-445c.
SATRAE (people) **20**-6d; **5**-772b.
SATRAP 20-6d.
— coin Pl. V. fig. 4 **16**-NUMISMATICS.
"Satrape" (Sidon) **2**-540d.
Satrapy (prov.) **17**-569a.
SATRICUM (Conca) It. **20**-7b; **19**-476c. fol.
Satrughna (prince) **19**-963b.
Satrunjaya, India **12**-223c.
Sat-sai (Bihārī Lāl) **11**-573c.
Satschan, Aus. **2**-700c.
Satsuma, prov., Jap. **12**-920a. **16**-758c; **18**-370a.
—, La. [24-121 D3].
—, isls., Jap **12**-945b fol.
— (orange) **9**-885b; **16**-837c
— (plum) **9**-885b.
Sattaka (drama) **7**-578d.
Sattapanni (cave) **18**-957b.
Sattasai (verse) **14**-856c.
Sattel, Switz. [24-31 F2].
Satterly, F. **8**-224b.
Satterwaite, Eng [24-13 B3]
Sattima, mts., Kenya Colony **13**-339b
Sattva (philos.) **12**-251b
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SATUN (Setul), state, Mal. Penin. **20**-7b.
Satupati (title) **4**-984d.
Satura (Rom. drama) **7**-585a, **13**-747a.
Saturae (lit.) **20**-5c.
Saturae Menippeae (Varro) **23**-995c.
Saturated air (meteorol.) **15**-350a.
— colours **1**-272d.
— fatty acids **9**-117d.
— solution **20**-958c.
— steam **21**-349c.
Saturation (chem.) **11**-315d; **5**-364d.
— (elec.) **9**-240b fol.; **22**-76a
— (geol.) **16**-876c.
— (phys.) **22**-979d; **22**-103b **14**-657c; **22**-983d fol.
Saturday **2**-576d; **4**-568d.
— Club (Eng.) **5**-858d.
— Club (Boston) **11**-677c.

Saturday Evening Post, The 6-884c; 14-895d.
Saturday Review (Eng. period.) 19-882b.
Saturday Review of Literature (Am. period.) 1-795a.
Satureia Thymus 13-26c.
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Saturnid moth antenna fig. 1 13-946.
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—, Vigellius 20-183c
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—, region, Andes 1-902d.
—, co., Calif. [24-154 C3].
—, co., N.Mex. [24-148 B5].
— Blanca, Tex. [24-122 B4]
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Silingas S. **14**-215d.
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—, wild **9**-213d.
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Silla (anc. king) **13**-489d. Jap hist. **12**-930a fol.; pottery **18**-360a.
— de Caracas, mt., Venez. **4**-825c
— de Torrellas, mts., Bal. Is. **14**-698d.
Sillaginidae (zool) **9**-320d
Sillanpää, F. E. (Fin. au.) **9**-256b.
Sillé le Guillaume, Fr. [**24**-24 E3].
Siller, riv., India [**24**-67 D3].
SILLIMAN, BENJAMIN **20**-678c; J. D. Dana **7**-12d, **23**-875a.
— Institute (P.I.) **7**-724c.
SILLIMANITE (min.) **20**-678c; kyanite **13**-529a.
Silliman's Journal (Am. period.): see *American Journal of Science and Arts.*
Silloth, Cumb., Eng. [**24**-13 A3].
Sillu, anc. town, Cyprus. *see* Soli.
Silno, Pol. [**24**-41 G3].
SILO (agri.): *see* Ensilage; *see also* **12**-282d; filling **8**-161b; **8**-165d, ll. **8**-617.
— (arch.) **10**-624c.
Siloam, Ill. [**24**-128 B4].
—, Ky. [**24**-116 H2].
—, N.C. [**24**-112 E1].
—, Pool of (Jerusalem) **11**-354b; Bethesda **2**-460c; Pl II. fig. 6 **17**-PALESTINE
— Springs, Ark. [**24**-120 A1]
— Springs, Mo. [**24**-141 E5].
Silos, abbey (Burgos, Sp.) **4**-405a.
Silpa-śastra (Indian lit.) **12**-221d.
Silpha opaca (beetle) **6**-3c.
Silphidae (zool.) **6**-3c.
Silphium laciniatum: *see* Compass plant.
Silpia, Sp.: *see* Ilipa.
Silpin (artist) **12**-210d
Sils, Grisons, Switz. [**24**-31 G3].
—, Grisons, Switz. [**24**-31 H4].
—, lake, Switz **21**-676b.
Silsbee, Tex. [**24**-123 G4].
Silser, lake, Alps **1**-695d.
— See, lake, Switz. [**24**-31 H4].
Silsileh, ft., Egy. **8**-101a.
Silt (soil) **20**-927c; water capacity **12**-21a, foundations **9**-553d.
Siltcoos, Oreg [**24**-151 A4]
Silurean (geol) *see* Silurian
SILURES (anc. tribe) **20**-678d; defeated by Romans **4**-520a; Rom. Emp. map **19**-500 (B1).
SILURIAN SYSTEM (geol.) **20**-678d; in Af. **1**-300a; in Austr. **2**-705d; brachiopods Pl. fig. 11 fol. **3**-BRACHIOPODA; Brazil **4**-49d; development **20**-679a fol, Eng. and Wales **8**-460d; fauna **17**-106d, fossils **17**-103d, Murchison's studies **10**-157b, **15**-974b; origin of name **10**-172d; U. S., Palaeozoic era **22**-724d; *see also* Ordovician System.
— Scorpion (fossil) **2**-204c.
Siluridae (zool.) **9**-316d, *see also* Catfish.
Siluroidea (zool.) **9**-316a
Silurus glanis *see* European cat-fish, Wels
SILVA, ANTONIO JOSE DA (Port dram) **20**-681b.
—, Antonio Maria da (Port. premier) **18**-283d.
—, João M. P. da (Braz. hist.) **4**-60c.
—, José Asunción (Colom. poet) **21**-150b.
—, Rodriguez de (Sp jur.) **23**-32a.
—, Ruy Gomez de (prince of Eboli) **17**-504d
—, Samuel da (Jewish au) **21**-232b
—, N Dak. [**24**-136 E1].
— Cabral, Mateo da (Port. writ.) **17**-906d.
Silvae (poems, Statius) **21**-315a.
Silvana, Wash. [**24**-150 C2].
Silvanus (bibl.): *see* Silas
SILVANUS (myth.) **20**-681c. (tyrant, Gaul) **19**-509d
—, M. Plautius (Rom tribune) **4**-830c.
Silvaplana, lake, Alps **1**-695d, **8**-411a.
Silvara, Pa. [**24**-107 E2].
Silveira, Fernão da (Port. writ.) **18**-292a.
Silvela, Francisco (Sp. pol.) **21**-139a.
Silver, Ark. [**24**-120 B3].
—, Mich. [**24**-130 C3].
—, S C. [**24**-113 D3].
—, bank, W.I. [**24**-157 E2].
—, cr., Ill. [**24**-129 C5].
—, cr., Oreg. [**24**-151 F4]
—, lake, Que., Can [**24**-89 A2].
—, lake, N.H. [**24**-97 C3]
—, lake, N Y. [**24**-102 B3].
—, lake, Oreg [**24**-151 E4].
—, mt., Bol. **18**-337a.
—, mts., Ida. [**24**-145 B7].
—, mt., Nfd. [**24**-93 B2].
SILVER (met) **20**-681d; alchemy **1**-536c; restoration of art objects **4**-252a; magnetic moments **14**-666a, med. uses **20**-683c; Moham. art **15**-655d; in pyrargyrite **15**-793d; transmutation **22**-412d.
—: *Currency:* **1**-663a; anc. coinage **16**-615d; Eng. standard **15**-579c, free coinage U S. **22**-819b; minting **15**-579b fol.; panic (1893) **22**-824c; Sherman Purchase Act **22**-823b.
SILVER: *Properties:* **15**-324c; atomic number and weight **2**-650d; boiling and melting point **3**-348b; fusing point **11**-315c; refractive index **14**-73d; resistivity **8**-228d.
—: **METALLURGY, MINING and Production** **20**-684a; alloys **20**-685a; Anaconda Copper Mining Co **1**-859c, Ariz. **3**-362b assaying **2**-555a; beating **10**-485a, Black Hills (U.S.) **3**-682d Bolivia **18**-337a; bullion **4**-373d; Canada **4**-699c fol; cerargyrite **5**-157b; Colo **6**-44d; consumption, 1925 **20** **20**-685d; cyanide process **6**-917a; Du E.I. **7**-873b; Egy **8**-54c, electro-plating **8**-340c; Eng. corn prices **6**-448b fol; extraction **1**-724d **15**-313b; Mex. amalgamation process **1**-725b, fig 1 **1**-725; Montana **15**-748b, Ont. production **16**-786b, ore deposits **16**-875a; Potosí, S.Am. **21**-70a; solder **20**-930b; U S. production (1861-73) **22**-817a; (1878 90) **22**-823b; world production **17**-873d; **20**-685b.
— Age (Rom) **13**-751b.
— antimonide **2**-68a.
— arsenite **2**-436c.
— azide **20**-683c.
— Bay, N.Y. [**24**-103 G2]
Silverbell, Ariz. [**24**-149 D6]
SILVER-BERRY (shrub) **20**-686a.
— birch (tree): *see* White birch.
— Bow, co., Mont. [**24**-111 B3], **4**-468a.
— Bow, Mont. [**24**-144 B2].
— bromide (chem) **20**-683a; adsorption **1**-184c, in phot. **17**-790b fol.; **17**-807c fol
— chloride (chem): *see* Cerargyrite.
— chub (fish) **5**-666c.
— City, Ga. [**24**-114 B2]
— City, Ia. [**24**-138 B3].
— City, Ida. [**24**-145 B7].
— City, Miss. [**24**-119 B2]
— City, Mont. [**24**-144 B2]
— **CITY**, N Mex. [**24**-184 A6], **20**-686a; Teachers' Coll. **16**-318d.
— City, S.Dak. [**24**-137 A2]
— City, Utah [**24**-152 B3].
— Cliff, Colo. [**24**-147 E3].
— Creek, Ill [**24**-129 B1]
— Creek, Nev. [**24**-153 C3].
— Creek, N.Y. [**24**-102 A3].
— Creek, O [**24**-124 B3]
— Creek, Tenn. [**24**-117 E2].
— Creek, Wis. [**24**-133 E6]
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—, Pa. [**24**-107 F3]
— colliery (Eng) **5**-809c fol
— fir (tree) **9**-260b; turpentine **22**-630b.
SILVERFISH (insect) **20**-686a.
Silver fluoride (chem.) **20**-683b.
— fox (animal) **9**-942a; Pl II. fig. 2 **9**-FUR.
— fulminate (chem) **20**-683c, **9**-913a; Brougnatelli **15**-272b
— Hill, Mass [**24**-99 C1].
— ink (writing fluid) **12**-362a
— iodide (chem) **20**-683a
SILVERIUS (pope) **20**-686a.
Silver king (fish): *see* Tarpon.
— Lake, Calif [**24**-155 E5].
— Lake, Ind. [**24**-126 C1].
— Lake, Mass [**24**-99 C1]
— Lake, Minn. [**24**-135 D7]
— Lake, Oreg. [**24**-151 D4].
— Lake, Wash. [**24**-150 C4].
— Lane, Conn. [**24**-101 C1].
Silver-lead (min.) **2**-725a
Silverleaf, N.Dak. [**24**-136 F3]
— leaf (fruit disease) **18**-84b; apple **2**-138d; plum **18**-35c.
— maple (tree): *see* White maple.
— mica (min): *see* Phlogopite.
— Mills, Me. [**24**-96 C3].
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Silver nitrate (chem.) **20**-683b; antidote **2**-62c; dissociation **20**-962c.
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Silver Peak, Nev. [**24**-153 B5].
— Peak, mts., Nev. [**24**-153 C5].
— peroxide (chem.) **20**-682d
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— phenyl (chem.) **16**-897c
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— Point, Tenn. [**24**-117 F1]
— Republicans (U.S. pol) **14**-590d.
— Run, Md. [**24**-108 B1].
— salmon (fish) **17**-960c.
— selenide (chem) **20**-683b
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Silver Spring, R.I. [**24**-100 C2].
— Springs, Miss. [**24**-119 D1].
— Springs, N.Y. [**24**-102 B3].
— Star, Mont [**24**-144 B3].
— Stick in Waiting (Brit. of) **10**-498a.
Silverstreet, S C. [**24**-113 C2].
Silver sulpharsenite (min): *see* Proustite.
— sulphate (chem.) **20**-683b.
— sulphide (chem.) **8**-233a; **20**-683b.
— thallium nitrate (chem.) **10**-94a
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—, Colo [**24**-14c C4], minerals **6**-44d; Pl. I. fig 6 **6**-COLORADO.
—, Dev., Eng. [**24**-17 C4].
—, Hss., Eng. **8**-724c.
—, Ill. [**24**-129 D5].
—, Mo [**24**-140 E5].
—, N J. [**24**-105 B2].
—, Oreg. [**24**-151 C2].
—, Tex. [**24**-122 D2].
—, Wash [**24**-150 D2].
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— washed fritillary (insect) **11**-540a; Pl. I. fig. 6 **13**-LEPIDOPTERA; larva fig. 34 **13**-955.
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SILVESTER I. (pope) **20**-693a, Constantine **7**-524b.
— II. (pope) **20**-693a, crusade **6**-773b; inv. clock **5**-835b; legends of **9**-121b; Otto III. **8**-406d; Stephen I. of Hung **11**-904a.
SILVESTER III. (pope) **20**-694a, Benedict IX **3**-396b.
— Gozzolini, St **20**-694b.
Silvestre, Gregorio (Sp. au) **21**-157a.
— **DE SACY, ANTOINE Isaac,** baron **20**-694a.
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SLOTH (mammal) **20**-798b; edentata **7**-949b, teeth **21**-870a; *see also* Potto.
Sloth bear (zool.) **3**-256c, Borneo **3**-907b; India **12**-155d
Slotil, Rum. [**24**-53 E2].
Slot machines (betting) **10**-13c
Slott (palace, Stockholm) **21**-423d
SLOTTING MACHINES: *see* Planing Machines, *see also* **22**-287d, elec. **8**-309a
SLOUGH, Bucks, Eng [**24**-15 C4], **20**-798c
— (game) **23**-573a
Sloughter, Henry **13**-896b
Slovac Ark [**24**-120 D3]
SLOVAKIA, prov., Czech [**24**-51 G2], **20**-798c; **6**-959c Pls I, II figs 3 4 **8** - CZECHOSLOVAKIA; renaissance **3**-785c; *see also* Czechoslovakia.
Slovakian Ore Mountains, Eur **4**-907a.
— Commenius University (Czech.) **7**-1004d
SLOVAK LANGUAGE **20**-799a modern drama **7**-618d, Pol **18**-161c, Stúr **3**-785d
SLOVAKS (people) **20**-799c.
Slovanska Lipa (pol society) **11**-152a
Slovene Alps, mts Yugos. **23**-919b
SLOVENE LANGUAGE **20**-799c, *see also* Slavonic Languages.
SLOVENES (people) **20**-800b
Slovenia, prov., S.C.S. [**24**-52 B2]; **23**-916c
Slover, Sir John **2**-505c
—, Ga [**24**-114 E5]
Slovník naučný (Czech nat encyclopaedia) **19**-301a
Slowacki Juliusz, romanticism **18**-161b
Slow Bridge, Wis. [**24**-132 B3]
combustion (phys.) **6**-98d
- fever (dis.) *see* Typhoid fever
Slow lemur (zool.) *see* Potto
motion photography **15**-858a.
SLOW-WORM (BLINDWORM) **20**-800b
Sloy, loch, Scot. **7**-728c
Slubbing frame (machine) **6**-574a
Sluch R., Pol [**24**-41 H3]
Sluchevsky, Constantine **19**-755c
Sluckey, Ga [**24**-114 D4]
Sludge disposal (engin.) **20**-403b; **2**-909a.
SLUG (mollusc) **20**-800b.
Slug casting machines (print.) **18**-502d
Slugs of Auchranie, cascades, Scot **9**-507b
Sluice box (gold mining) **10**-482d fol
— gate (valve) **7**-479a, fig 20 **7**-477, **11**-971b
- valve hydrant (mech.) **11**-961a
Sluicing (mining) **15**-545b
— basin (engin.) **11**-174b
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Sluknov, Czech. [**24**-50 D1]
SLUM (social.) **20**-800c, Eng **11**-832c; U S. **11**-841b.
SLUMP: *see* Trade Cycle.
Slunj, S C S [**24**-52 B2].
Slurry (cement) **5**-105b fol.
Sluter, Claux **7**-383d.
Slutsh, riv., U S S R [**24**-49 C4].
SLUTSK, U.S.S.R. [**24**-49 C4]; **20**-802a
SLUYS (SLOIS), BATTLE of (1340) **20**-802a, **8**-495a
Sluys (L'Ecluse, Sluis), Holl [**24**-29 B3], **11**-658a fol.
Sluze (math.) **6**-891d
Sly, N.C [**24**-112 D1].
Slyce, Maud **4**-735b
Slyne, Hd and L. Ho., Ire [**24**-20 A3].
Sm (chem.) *see* Samarium.
Smack (ship) **20**-810a.
Smacker (machine) **14**-166a.
Smackover, Ark. **2**-367b; oil fields Pl fig 3 **2**-ARKANSAS· **17**-604a.
Sma Glen, Perthshire, Scot. [**24**-12 A1]; **10**-426b.
Small Aga Čengić, Death of (Mažuranić) **20**-357c
Smallholm, (tower) Scot. [**24**-12 B2] **13**-318b.
Smala, Alg **1**-618d
Småland, prov., Swed. **21**-636d, **21**-654d.
Smalkald League of (1531) **10**-209a.
Small, John **6**-698d.
—, William **12**-987a
—, Ida. [**24**-145 F5].
—, Pt., Me. [**24**-96 C5].
— agave (bot.) **20**-861c.
SMALL ARMS, THE DEvelopment of **20**-802b; automatic rifles **20**-809a, powders **8**-902a; types **20**-806c *Machine guns* **20**-801d, **20**-811c; Lewis gun **12**-336c, inventor **13**-985b; specifications **20**-810b; light machine guns **20**-809c.
—, *Rifle:* **1**-827b fol., ballistics **2**-999d bullet **1**-824d fol fort. **9**-531b; hunting **3**-555c, mil tactics **21**-747b; sights **20**-638a, U.S. "30" fig. 7 **20**-813
Small blueis (bot.) **3**-757b.
— calorie (heat): *see* Gramme calorie
Catechism (theol.) **14**-500c.
- circle (math.) **21**-210a.
- crab-grass (bot.) **6**-628c.
- Debt (Scotland) Act (1924) **2**-431d
- Dragon Fly (zool.) fig. 6 **12**-INSECTS.
- Dwelling's Acquisition Act (Eng.) **11**-831b; **5**-204c.
— Golden mosque (Gaur)· *see* Eunuch's mosque
— Heath, Warwick, Eng. **3**-42d
- hemlock: *see* Fool's parsley
— **HOLDINGS** **20**-813c.
— Holdings Acts (Eng., 1908-26) **6**-128a; causes **1**-402c, provisions **1**-396d
— Holdings Colonies Act (1916 1918, Eng.) **20**-814c
— intestine: *see* Intestine, small
— **ISLES**, Isls, Scot. **20**-815d.
— Landholders (Scotland) Acts (1886-1911, Eng.) described **13**-651c
- leaved lime (bot.), Eur. lime **14**-128d
— maple (bot.) **14**-852a
Small-mouth black bass (fish) Pl. II. fig 4 **9**-FISHES
Small nettle (bot.) **16**-253c.
— occipital nerve **16**-235c fol.
— Parly (rel sect) **7**-556d.
— plea (type) **18**-502a
- Point Beach, Me. [**24**-96 C5].
SMALLPOX (VARIOLA) (disease) **20**-816a, blindness **3**-732b.
— epidemic (London, 1901-02) **8**-651a.
Small Propylaea (Eleusis, Gr.) **8**-350d
Smalls Wales, lighthouse **14**-89d fol.
— (cement) **5**-109d.
Small salad **6**-671a.
— sample method (labor) **22**-695b.
— sciatic nerve (anat.) **16**-238a fol; fig 9 **16**-237.
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Small splanchnic nerve fig. 6 **16**-241.
— -spotted dog-fish: *see* Rough hound.
— -sword **8**-637a.
— Tenements Recovery Act (1838, Eng.) **8**-116b
— Tower of the Wild Geese: *see* Hsiao Yen T'a pagoda.
— Venus's looking glass (bot.) **23**-73b
— viburnum (bot.) **23**-117d.
— white pig (zool.) **17**-919d.
Smallwood, S.C. [**24**-113 D2].
Smalt (chem.) **5**-931b; paper mfr. **17**-233a
— (paint) **17**-67d.
SMALTITE (min.) **20**-818a; in cobalt **5**-929d fol.
Smalwoode, John: *see* Winch combe.
Smara, oasis, Rio De Oro, Af. [**24**-78 B3], **19**-317a.
Smaragdite (min.) **7**-914c.
Smarden, Eng. [**24**-15 D4].
Smarrs, Ga. [**24**-114 C4].
SMART, CHRISTOPHER **20**-818b.
—, **SIR GEORGE T.** **20**-818c; Weber **23**-468c.
—, George (Fish) **20**-728d.
—, **JOHN** **20**-818c.
—, Morton **8**-342c.
—, W. M. **23**-491a.
—, William **20**-728d fol.
Smartas (rel. sect) **11**-578d.
Smärta-sūtra (treatise) **19**-958b.
Smartt, Tenn [**24**-117 F2].
Smash (tennis) **13**-790a.
Smear (histol.) **11**-591b.
Smeathman, Henry **20**-625c.
SMEATON, JOHN **20**-818d, adopted C E. **5**-734d; cement **5**-104d; lighthouse **14**-87b fol., Newcomen's engine **21**-353a
—, Mark (Eng.) **3**-807d.
—, Great, Yorks., Eng. [**24**-13 C3].
Smeaton's tower, Eng. Chan. **14**-88b.
Smectymnuus (pseud.) **15**-509b
SMEDEREVO (Semendria), Yugos. [**24**-52 E2]; **20**-818d
—, ft., Serb. **20**-342d.
Smedley, Ind [**24**-127 B4].
Smedt, C de **3**-821d.
Smeerenburg, Spitsbergen **21**-250d, **23**-554b.
Smeira, Af [**24**-78 C3]
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— **AND TASTE, SENSES OF** **20**-820c; *see also* Olfactory system
Smellekamp, J A **16**-130c
Smellie, William (printer) **8**-428b fol.
Smellie, William (surg.) **13**-636a.
Smelling salts **6**-486d
SMELT (zool.) **20**-823a.
Smelter, Ariz. [**24**-149 F5].
SMELTING: *see* Metallurgy, *see also:* bellows **3**-386a blast furnaces **9**-944b· coal and coke **9**-895b; copper **15**-313b; copper Pl fig 3 **6**-COPPER, elec. furnace **8**-333c fol; hot blast **11**-796b; impurities **12**-651c iron ore **12**-651c, silver **20**-684c.
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Smendes (Egy.k.) **8**-74d
SMERDIS (Pers.k.) **20**-823a **4**-655b; **17**-349d· **7**-59a
— (Vahvazdāta) **17**-349d
Smerna, mt., Gr: *see* Kalapha.
Smert Bogov (hist. romance, Merezhkovsky): see *Death of the Gods, The.*
Smerwick Harb., Ire. [**24**-21 A4].
SMETANA, FRIEDRICH **20**-823c.
Smethport, Pa. [**24**-106 C2].
SMETHWICK, Staffs., Eng **20**-823c.
SMETONA, ANTANAS **20**-823d.
Smew (zool.) **15**-277c.
Smgisyō, Kor [**24**-74 D3].
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Smichov, Czech. [**24**-39 K3]
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Smidt, Johann **4**-90b
Smilacoldeae (bot.) **14**-121d
Smilax (bot.) **2**-547b; **14**-121d, *see also* Sarsaparilla.
— medica **20**-1a
— officinalis **20**-1a
Smilde, Holl [**24**-28 E2].
SMILES, SAMUEL **20**-823d.
Smiley, Tex. [**24**-123 F5].
Smillie, James **20**-824a.
—, **JAMES D.** **20**-824a.
—, **ROBERT** **20**-824a.
Smilodon (zool.) **14**-574d
Smilovský, Alois V **6**-965a.
Smiltene, Latvia [**24**-47 C2]
Smintheus, Apollo (myth.) *see* Apollo Smintheus.
Sminthopsis crassicaudata (zool.): *see* Fat-tailed pouched mouse
Sminthurus (zool.) **2**-152c.
— viridis (zool.) **2**-152c
Smirke, Sir Robert **14**-354d.
Smith, F. E., 1st earl of Birkenhead. *see* Birkenhead.
—, William F. D., viscount Hambleden: see Hambleden.
—, Donald A., baron Strathcona and Mount Royal: *see* Strathcona and Mount Royal.
—, Sir Henry B. **23**-337b.
—, A. D. (expl.) **20**-966c.
—, A. D. (skater) **20**-730b.
—, **ADAM** **20**-824b; Hutcheson **11**-945d; mercantile theory **2**-964b; natural liberty **6**-163c; smuggling **20**-845b, taxation **21**-838b fol.
—, Adjutant-general (pseud.): *see* Tone, Theobald Wolfe.
—, **ALEXANDER** **20**-827a.
—, **ALFRED E.** **20**-827a.
SMITH, ALFRED H. (offi.) **20**-827d.
—, Alfred M. **7**-187c.
—, **ANDREW J.** **20**-827d Cold Harbor **23**-600b; Nashville **16**-124c fol., Petersburg **17**-651b.
—, Angus **18**-86b.
—, Arabella M. **6**-989d.
—, Archibald **6**-174d.
—, Baird *see* Smith, Richard B.
—, Barbara L.· *see* Bodichon, Barbara L. S.
—, Benjamin **3**-770b.
—, Bernard (Father) **17**-969a.
, B L. **2**-297c; **9**-699c.
, **CHARLES F.** **20**-828a
, **CHARLOTTE** **20**-828a.
—, C. R **10**-90b.
—, **EDMUND K.** **20**-828b
, Edwin, Papyrus, *see* Edwin Smith Papyrus.
—, Eleanor **20**-904a.
—, Elliot **1**-301a.
—, Ernest L **2**-811b.
—, F E (phys.) **12**-433b fol
—, **FRANCIS H.** **20**-828c.
, Francis P **20**-513c
—, G. A **15**-869a, **17**-802d.
, G. Elliot **15**-466b.
—, Geoffrey **20**-42b fol.
, **GEORGE** (b. 1780, publ.) **20**-828c.
—, George (b 1824, publ.) **20**-828c, **3**-505c.
—, **GEORGE** (Assyriologist) **20**-828d.
—, **GEORGE** (philan.) **20**-828d.
—, **SIR GEORGE A.** **20**-829a
—, **GERRIT** **20**-829b.
—, G. F. **15**-75b.
—, Gladys: *see* Pickford, Mary.
—, **GOLDWIN** **20**-829c; **4**-716a
—, **HENRY B.** **20**-829d.
—, **SIR HENRY G. W.**, bart **20**-829d
—, **HENRY J. S.** **20**-830b.
—, Holled **8**-104c
—, Holroyd **8**-296b.
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—, Sir Hubert L **18**-193b
—, Hyrum **16**-167a
—, James (engin.) **7**-557d
—, James (patriot) **7**-126a
—, Sir James E. **3**-945d
—, **JAMES and HORACE** (Aus.) **20**-830c
—, Jedediah S **16**-270c.
—, Jem **18**-758c.
—, **JEREMIAH, JR.** **20**-830d
—, John (antiq.) **10**-337c
—, **JOHN** (colonist) **20**-831a **1**-784b; **3**-935d.
—, John (non-conformist) *see* Smyth, John.
—, John (philos.) **8**-586a
—, **JOHN R.** **20**-833a; **15**-403c, "Dressing for the Masquerade" Pl fig. 2 **21**-STIPPLE ENGRAVING Mezzotints Pl. figs. 1, 3 **15**-MEZZOTINT
—, John S. **7**-226d.
—, **JOSEPH** (Mormon) **20**-833a; **16**-166d
—, Joseph L **20**-828b.
—, Juana M. de Los D. de L., Lady **20**-830a fol.
—, Kirby: *see* Smith, Edmund K.
—, Leigh **21**-251a.
—, Lionel **20**-828b.
—, Lorrain **23**-68c
—, L. Pearsall **8**-601c.
—, Luke **23**-462d.
—, Main **2**-648a
—, Murdoch **16**-360d.
—, Mrs. Spencer **4**-479b.
—, N R. **2**-901b.
—, O. J. **21**-708c.
—, Pauline **21**-62d.
—, Pearsall **18**-93c
—, Peter **18**-500d.
—, P. F. **6**-350b
—, Richard **16**-640c.
—, **RICHARD B.** **20**-833a.
—, Richard P. **7**-611d
—, Robert (arch.) **18**-496d.
—, Robert (math.) **20**-833b
—, **ROBERT** (states.) **20**-833c.
—, Robert P. **20**-833d.
—, Robertson· *see* Smith, William R.
—, Ross (capt.) Pl. I. fig 13 **22**-TRANS-O. AND TRANS-CONT. FLIGHTS
—, S. **23**-486c.
—, S. H. **7**-504a.
—, Shergold **23**-137d.
—, Sir Sidney **2**-822c; **3**-88c fol.; **9**-830b; **16**-87a; **4**-819d.

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—, W. F. (Am. comm.) 20-383a.
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—, William (educ.) 17-484d.
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—, WILLIAM (geol.) 20-834d; 10-156d, 13-193c, 17-103b.
—, William (hist.) 14-238c
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—, WILLIAM (poet) 20-834d.
—, William (law.) 16-373d.
, WILLIAM F. 20-835a.
—, WILLIAM H. (states.) 20-835a.
—, William H. (writ.) Bacon-Shakespeare theory 20-417d
WILLIAM R. 20-835c, 9-730d, 8-420d, canticles 4-768b, Passover 17-356d; theory of culture 20-863c.
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, sulphate (chem. indus.) 1-639d, 1-640d, 3-954a, 19-898d, 22-86a.
, sulphide (chem.) 7-780c
, sulphite (chem.) 4-836c, 17-898d
, taurocholate (physiol.) 7-380c
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, thiosulphate (chem.) 17-810a.
triphenylmethyl (chem.) 16-897b.
, tungstate (chem.) 22-548b
, vapour (phys.) 9-424a: Pl. figs. 8, 9 14-LIGHT.
, xanthogenite (chem.): *see* Viscose.
Sodo (Jap. sect) 13-928a.
SODOMA, IL 20-924b.

SODOM AND GOMORRAH (bibl. cities) **20**-924d.
— apple (bot.): *see* Madar.
Sodomitish Sea, lake, Pal.: *see* Dead Sea.
SODOR AND MAN (bishopric, Eng.) **20**-924d.
Sodus, N.Y. [**24**-102 C2].
—, bay, N.Y. **16**-274d.
—, pt., N.Y. [**24**-102 C2].
— Center, N.Y. [**24**-102 C2].
Sodyl hydroxide (chem.) **20**-923b.
Soela, isls., Du.E.I.: *see* Sula, sd., Est. [**24**-47 B1].
Soemba, isl., Du.E.I.: *see* Sumba.
Soembawa, isl., Du.E.I.: *see* Sumbawa.
Soemmering (phys.) **21**-881b.
Soemmerring's gazelle (zool.) **2**-224d.
Soerabaja, Jav.: *see* Surabaya.
Soercheil (Ir. hist.) **12**-598d.
Soergel, W. **5**-825c.
Soerselitch, Lond., Eng.: *see* Shoreditch.
SOEST, Ger. [**24**-38 D21; **20**-925a.
Soesterberg, Holl **11**-657b.
Soetermee, Holl. [**24**-28 C2].
Soest portrait (of Shakespeare) **20**-451a.
Soeurs Aveugles de St. Paul, Les: *see* Blind Sisters of St. Paul.
Sof (pol. group) **1**-304d.
Sofa (furn.) Pl. I, fig 3 **15**-MODERN TENDENCIES IN APPLIED ART.
Sofala, N.S.W., Austr. [**24**-171 J4].
SOFALA, Port. E.Af. [**24**-81 E2]; **20**-925a.
—, isl., Af.: *see* Madagascar.
—, riv., Port. E.Af **20**-925a.
Sofejin, riv., N.Af. **22**-483b.
Sofetim: *see* Suffete.
Soffici, Ardengo **12**-748c.
Soffioni (chem.) **3**-901d.
SOFFIONI (SUFFIONI) (volcanic vents) **20**-925b.
Sofia (w., Ivan III.) **19**-714d.
Sofia, dist., Bulg. [**24**-53 B4], **22**-159b.
SOFIA, Bulg. [**24**-53 B4]; **20**-925b; air lines map **1**-403, Balkan war **2**-991c; museum **15**-1003d; university **22**-872c; views Pl. I, figs. 1, 2 **4**-BULGARIA; *see also* Petchenegs.
—, riv., Mad. **14**-601a.
"Sofia" (ship) **21**-251a.
Magdalena, Princess **21**-648a
Sofiisk, (Slb.) U.S.S.R. [**24**-57 N3].
Sofnol (product) **22**-406d.
Sofonisba (Trissino) **7**-591a
Sofronii (bp., Vratsa) **4**-363c
Soft chancre (soro): *see* chancroid
— cheese **5**-338c
— Chün ware (pottery) **18**-365a.
— coal *see* Bituminous coal.
corn (bot.) **14**-696d
SOFT DRINKS (beverages) **20**-925d; industry **1**-224b.
Softening (jute) **13**-216b
Soft grass (bot.): *see* Yorkshire fog.
— -ground (etching) **8**-750b.
— -hail (meteorol.) **11**-77a.
— -iron instrument (elec) **12**-439a.
— mud moulder (mach.) **4**-113d.
— palate (anat.) **17**-695d fol.
— paste (porcelain) **18**-351b
— pine **17**-938d fol
— red ore (min.) **11**-68b.
— roe (fish testis) **19**-179c.
— rot (bot. dis.) **12**-38a
— soap (indus.) mfr. process **20**-859c.
— sore: *see* chancroid.
— -spot (mil. tactics) **12**-335b.
— stop (piano device) **17**-900c.
— valve (elec.) **22**-82d.
Softwater (chem.) **22**-406d.
Softwood (wood) **22**-217a fol.; supply **2**-504c.
— forests **17**-868a.
Soga (Jap. fam.) **12**-930d fol.
— Jasoku **12**-963d.
Sogamoso, Colom. [**24**-162 C2]; pop. **2**-992a.
Soga no Iruka **12**-930d fol.
— Shohaku **12**-964d.
— Shubun **12**-963d.
Sogdian (lang., Pers.) **12**-587a.
SOGDIANA, anc. prov., Asia **20**-925d, map **17**-548 (E2); Hellenism **11**-406a.
Sogdians (tribe) **17**-566c.
Sogdianus (Pers. k.): *see* Secydianus.
Soggendal, Nor. **5**-297c.
Soggetto (mus.) **1**-897c.
Soghanli Dagh, mts., Turk. [**24**-59 J2].
Soghawa, A.E.Sud. [**24**-79 A4].
Soghla Geul, lake, Turk. [**24**-58 D4]; **2**-536a.
Soglio, Switz [**24**-31 H4].
Sogn, dist., Nor. **16**-550d.
Sogndal, Nor. [**24**-43 C7]; **20**-926a.
Sognefest, Nor., geog. data **20**-926a.
SOGNE FJORD, Nor. [**24**-44 A1], **20**-926a.
Sogno di Scipione, Il (Mozart) **15**-942a.
Sogn og Fjordane, co., Nor. **16**-547c.
Sögnbók (sagas) **19**-812c.
Sögumaður (sagaman) **19**-812c.
Sögu-öld (epoch) **19**-812d.
Sohag, Egy. [**24**-79 C2].
Sohagpur, India [**24**-67 D2].
Soham, Cambs., Eng. [**24**-14 D3].
Sohan, riv., India [**24**-65 C2].
Sohar, Arab. [**24**-62 F3]
Sohawal, state, India **2**-925b.
Soheb, Arab [**24**-62 D5]
Sohlberg, Harold **17**-64C c.
Sohm, Rudolph **5**-670d.
Soho, dist., Staffs., Eng. **20**-823d.
—, Staffs., Eng. **3**-642d.
"Soho" (camera) **17**-822a.
Soho works (mfr.) **4**-471a.
Sohrab and Rustum (Arnold) **2**-424c
Sohukusanto, isl., Kor [**24**-74 D6].
Soi (feast) **16**-299d.
Soiana, riv., U.S.S.R. [**24**-48 F1].
Sojberg, Harry **7**-35b
SOIGNIES, Belg. [**24**-20 C4], **20**-926a; **9**-871c.
—, forest, Belg. **20**-926a
SOIL (earth) **20**-926b; **2**-233c, **17**-857c fol.; acidity **20**-928a; adobe **1**-175c; algae **1**-602b; animal distribution **7**-440c, bacteria **20**-930c fol; Pl. II, figs. 4, 5, 6 **2**-BACTERIOLOGY, disease **20**-934c; erosion **9**-463a, **9**-500d; fertilizers **9**-190b; fruits **9**-686a, fungi **20**-933b; heat diffusivity **11**-328d fol.; irrigation **12**-685c, lime **14**-133a; preparation figs 1, 2 **1**-AGRICULTURAL MACHINERY AND IMPLEMENTS; properties **20**-928d; study of **3**-833a; water in **18**-21a.
— absorption: *see* Absorption, soil.
— line (plumbing) **11**-824c, **18**-85b, **19**-946a.
— solution (chem.) **18**-24b.
Soil (nov., H. Pontoppidan) *see Muld.*
Soimonov (Russ. gen.) **12**-362c.
Soirées Canadiennes (organization) **10**-208a
SOISSONS, Fr. [**24**-25 J2]; **20**-934d, **2**-266b; battle, 486 **9**-611c; battle, 719 **16**-704c.
— -**REIMS, BATTLE OF, May-June 1918**: *see* Chemin-des-Dames
Soja bean: *see* Soya.
— bispida (plant): *see* Soya bean
Sök (As. tribe): *see* Saka
—, riv., U.S.S.R. [**24**-49 H4]
Sokal, Pol. [**24**-41 G3]
Sok-Chu, riv., Chwanben [**24**-68 F5].
Soke, area, Lincs., Eng [**24**-14 C3].
SOKE (law) **20**-935c.
Sokele, Bel. Cong. [**24**-82 D4].
Sokhansky, Mme. **19**-754d.
Sokho, Nor., lake, Mong. [**24**-68 G3]
Sokhondo, mt., (Slb.) U.S.S.R. **23**-868a.
Sokhta Chinai, Afg. map **1**-283.
Sokia, Turk. [**24**-58 B4].
Sokman (Ortokid atabeg) **6**-778c.
Sokna, Sah. **9**-211c.
SOKOL-DOBROPOLJE, BATTle of, 1918 20-935c.
Sokólka, Pol. [**24**-41 F2].
Sokoli, Mohammed (Bosn. grand vizier) **3**-927c; **20**-307a, **20**-801c.
SOKOLNIKOV, GREGORY Y. **20**-935c
Sokolnitz, Aus. **2**-699d.
Sokolo, Fr. Sud. [**24**-80 C3].
Sokolov, N. D **19**-730d
Sokolović, Mohammed (Bosn grand vizier): *see* Sokoli.
Sokolow, Nahum **11**-363a.
Sokolow, Pol. [**24**-40 F2].
SOKOTO, prov., Nig. [**24**-80 E-F3]; **20**-935d
—, riv., Sud. [**24**-184 D4]; **16**-438d
SOKOTRA, isl., Arabian Sea [**24**-3 O4, **24**-180 D7; **24**-184 J4]; **20**-936c.
— (lang.) **20**-936d.
— (people) **20**-936d.
Sokri (myth) **8**-58d.
Sok Tchu, riv., Tib. [**24**-68 E5]
Sol, isl., Bol **3**-814a.
— (chem.) **6**-22c.
SOL (money) **20**-937c.
Sola, U.S.S.R [**24**-48 F1].
— dance (custom) **7**-22b.
Solana, Minn. [**24**-134 E5]
SOLANACEAE (bot.) **20**-937d; *see also* Nightshade.
Solander, isl., N.Z [**24**-173 A7]
Solan goose *see* Gannet
Solanki (dynasty) **12**-223b, *see also* Chalukya
Solano, co., Calif. [**24**-154 C3]
—, N. Mex. [**24**-148 E3].
— (wind): *see* Levanter.
SOLANUM (bot.) **20**-938d, *see also* Nightshade
— carolinense *see* Horsenettle.
— Dulcamara: *see* Bittersweet
— Lycopersicum, *see* Tomato
— Melongena (bot.): *see* Aubergine, Egg-plant.
— nigrum **20**-938a, *see also* Black nightshade
— rostratum *see* Buffalo-bur.
— *sodomeum see* Apples of Sodom
— tuberosum: *see* Potato.
Solar apex (astron.): *see* Apex
— atmosphere (astron.) **21**-179b.
— climate **5**-814d
— constant (meteorol.) **5**-815b; **15**-356a, **21**-563a
— corona (astron.) **6**-455c.
— cycle (chron.) **4**-570a
— day *see* Day.
— disc, winged **8**-108d
— eclipse (astron.) **22**-13c.
— energy (phys.) **17**-787d.
— equation (chron.) **4**-571b.
SOLARIO, ANDREA DE **20**-938d.
— (horse) **11**-765c
Solar motion (astron.) **21**-324d
— noon **7**-312b
Solaro (It. fam.): *see* Lombardo.
—, mt., It. **4**-819c.
Solar observation (astron.) **16**-674a
— parallax (astron.) **2**-587d; **17**-261b; **21**-434d, **21**-560b.
— photography **17**-835a, *see also* Photography, celestial; Spectroheliograph.
— physics **11**-88a
— Physics Observatory (Cambridge, Eng.) **16**-674b.
— plexus (anat.) **3**-986b, **16**-240c.
— radiation (meteorol.) **7**-769a, **15**-355d, C G Abbot **1**-20c; climate **5**-814d, frequency **16**-877a, Sir J. Herschel **11**-327d, intensity **11**-338b; glacial period **10**-379d; Halley **15**-343b
— spectrum *see* Spectrum.
Solar Spots, Letters on the (Galileo) **9**-979d.
SOLAR SYSTEM: *see* Planet, *see also* **2**-578a, **6**-491d; Pl. figs. 1-4 **6**-CORONA; **7**-831b; **11**-520d.
— time **7**-312b.
— year **4**-568d.
Solaster (zool.): *see* Sunstar.
Solat-u-Daulah (Kashgai chief) **17**-600b
Solazzi (juice) **14**-191b.
Soldau, Pol.: *see* Działdowo.
SOLDER (alloy) **20**-939a.
SOLDERING (met.) *see* Brazing and Soldering.
Soldering-iron **3**-827c.
Soldier (mil.) **2**-414a; **6**-283a; **22**-322a; origin of name **8**-850b; war pension **22**-862c; *see also* Army.
Soldier beetle **6**-4a.
— field (stadium, Chicago) **5**-450d
Soldiers (entom.) **20**-886d.
—, female **6**-979b.
Soldier's-cap (plant): *see* Dutchman's Breeches.
Soldiers' club (mil.): *see* Regimental institute
Soldier Settlement board (Can.) **4**-699c
—, Ia [**24**-138 B3].
—, Kan [**24**-142 G2]
—, Ky [**24**-116 G2].
— Pond, Me [**24**-96 D1].
Soldier's Field (stadium, Chicago, Ill.) Pl. I fig. 1 **21**-STADIUM.
Soldiers' Graves, National Committee for the Care of **23**-345d
— Grove, Wis. [**24**-133 C6].
— Home, park, Washington, D.C. **24**-108.
Soldiers' Pocket Book for Field Service (Wolseley) **23**-699d.
Soldier Summit, Utah [**24**-152 C3].
Soldiers' wills (testaments): *see* Will U.S., Fr., etc.
Soldin, Ger. [**24**-40 B2].
Sold ledger (bookkeeping) *see* Sales.
Sold note (fin.) **4**-230d fol
Sol Duc, Wash. [**24**-150 B2].
SOLE (fish) **20**-939c; classification **18**-75b; eggs **8**-27d.
— (curling) **6**-876d.
— (golf) **10**-504d.
— (shoe) **3**-886d.
Solea (fishes) **20**-939c.
— vulgaris (fish) **9**-325a
Soleaaumua, Upolu I., Samoa [**24**-176 D1].
Soleb (temple, Nubia) **16**-584d, **21**-508c.
Solebay, Suff., Eng. (battle, 1672) **7**-777d.
Solec, Pol. [**24**-40 E3].
Solecism **20**-940b fol
Soledad, Arg. [**24**-165 D3].
—, Boca, Mex [**24**-158 B2].
—, Calif. [**24**-155 C4]
—, pass, Calif **4**-590c.
— (estate, Cu.) **5**-702c.
—, La, treaty of (1862) **13**-162a
Soledad Diaz Gutiérrez, Mex **19**-951a.
Soledade, Bahia, Braz. [**24**-164 B2].
—, Minas Geraes, Braz. [**24**-164 A5]
Soledon colours: *see* Anthraquinone.
Soleduck, riv., Wash. [**24**-150 A2]
Soleidae (fishes) **9**-325a
Soleil, mt., Switz **19**-834d
Soleiman (of Darfur) **7**-57d
Sole leather (hide) **13**-847c fol.
Solemnis conventio (pact). *see* Concordat
Solemn League and Covenant (Scot. hist.) **6**-816a, **8**-521a, **10**-738d; **22**-977a, (of Scot.) **20**-160a, **20**-173d
Solen, N. Dak [**24**-136 D3].
Solenia (zool.) **2**-32c.
Solenichthyes (fishes) **9**-318d
Solenodon (zool.) **12**-404c
— cubanus (zool.) **12**-404c.
— paradoxus (zool.) **6**-835a, **12**-404c
Solenodonsaurus (fossil reptile) **19**-188b.
Solenodontidae (zool.) **12**-404c; distribution **23**-965d
Solenogastres (zool.) **1**-843b, **15**-674c.
Solenoid (phys.) ballistics **2**-1004a, **14**-640d; **14**-643c.
Solenoidal distribution (math.) **23**-23b
Solenostele (bot.) **18**-9b.
Solenostomidae (fishes) **9**-318d.
Solenostomus (fish) **9**-318d.
SOLENT, THE, str., Eng. channel **20**-939d.
Solesci, Rum. [**24**-53 D2].
SOLESMES, Fr. [**24**-25 J1]; **20**-940d; Cateau (battle 1914) **9**-872c fol.
— (priory, Solesmes, Fr.) **20**-939d
—, Switz.: *see* Solothurn.
Soleus (muscle) **15**-988d.
SOLF, WILHELM **20**-939d.
Sol-fa system (mus.) **6**-899c; **16**-19c; *see also* Tonic sol-fa.
SOLFATARA (geog.) **20**-940a.
Solfataric (gas activity) **18**-99c.
Solferino, It. [**24**-34 C2].
SOLFERINO (battle, 1859) **20**-940a.
Solférino, un Souvenir de **10**-115c.
Sol-Gel transformation (chem.) colloids **6**-27c.
SOLI, Asia M. **20**-940b.
SOLI, Cyprus **20**-940c, excavations **5**-165b; map **19**-501 J4.
—, Yugos: *see* Tusla.
SOLICITOR (law) **20**-940c, U.S. **22**-941b.
SOLICITOR-GENERAL (law) **20**-941b, U.S. **2**-604c; **10**-577a.
Solicitors' Act (1843, Eng.) **13**-875d.
— Act (1877, Eng.) **13**-873d.
— Act (1922, Eng.) **13**-875d, **20**-940d
— Remuneration Act (1881, Eng.) **13**-807a.
— Remuneration Order (1882, Eng.) **13**-807b
Solicitor to the Treasury (U.S.) **20**-941b
Solidago (bot.): *see* Golden rod.
— altissima *see* Tall golden rod.
— bicolor: *see* Pale golden rod.
— caesia. *see* Wreath golden rod
— californica: *see* California golden rod.
— canadensis *see* Canada golden rod
— juncea *see* Early golden rod.
— nemoralis *see* Dwarf golden rod.
— occidentalis: *see* Western golden rod.
— odorata: *see* Sweet golden rod.
— serotina. *see* Late golden rod
— spathulata. *see* Coast golden rod.
— speciosa *see* Showy golden rod.
— virgaurea. *see* European golden rod.
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TAORMINA, Sic. [24-35 E6]; **21-797c**
Taormina, It. Pl. fig. 4 **20-SICILY**, castle Pl. fig. 1 **20-SICILY.**
Taos, co., N.Mex. [24-148 D2].
—, N Mex [24-148 D2]; **6-47c**, il. **16-319**
Tao Tê Ching (Lao Tzŭ) (Chin classic) Taoism **5-572b** fol., **13-712c** fol.
Tao-t'ieh (Chin art) **4-248d**
Taoutire, Tahiti [24-176 B2].
Tap (tool) **20-193b.**
Tap, three ways (chem.) **5-346a.**
Tapa, Est. [24-47 C1].
— (cloth) Pl. I., II. **3-BARK-CLOTH.**
Tapachula, Mex. [24-159 F5]; **5-446c.**
TAPACULO (bird) **21-797d.**
Tapadibi, Arm. **2-377b.**
Tapah, Mal. Penin. [24-71 B5].
Tapajoz, Braz. [24-163 A4].
—, riv., Braz. [24-160 D3; 24-190 D3], **1-731a**; **1-733d.**
Tapaling, mts., China: *see* Tapa-shan.
Tapalquen, Arg. [24-165 E4].
Tapanahony, riv., Du. Gui. [24-163 A2].
Tapang (tree) **3-907d.**
Tapanuh, Sum. [24-72 A3].
TAPANULI, resid., Du. E. I. **21-798a**, **7-871a.**
—, bay, Sum. **21-798b.**
Tapa-shan, mts., China [24-70 A3]; **5-512c**; **21-726a.**
Tapasya (Hindu chron.) **4-578b.**
Tapauá, riv., Bras. [24-162 D5].
Tape (fabric) **11-790a.**
—, Hyrcania **12-25d.**
— lace **12-565b**
— **MACHINE**: *see* Ticker.
Taper (candle) **4-739c.**
Tapera, Braz. [24-164 C3].
— de Baixo, Bras. [24-164 B3].
Tapered roller bearings (mach.) **3-266c.**
— splicing (hosiery) **11-790b.**
Taperoa, Braz [24-164 C3].
Tapes decussatus (zool.) **17-422c.**
TAPESTRY (textile fabric) **21-798c**; **12-490d**; anc. Pers. **17-565b**, Pl I. figs. 1, 2, 3, 4 **3-BAYEUX TAPESTRY**; Pl II. figs 1, 2 **3-BAYEUX TAPESTRY**; carpet mfr **4-921c**; fig. 9 **4-921c**, fig 11-A. **4-922c**; Flanders **12-478d**; French Pl IV. fig 2 **19-RENAISSANCE ART**; Portuguese Pl. II. fig. 1 **22-TEXTILES AND EMBROIDERIES**, weaving **19-923c**; Pl. figs. 3 and 4 **4-CARPET MANUFACTURE**, fig 5 **19-621**; fig. 17 **23-458.**
- loom (machine) Pl fig 3 **4-CARPET MANUFACTURE**
Tapetum (anat.) fig. 10 **4-15**; **23-203b.**
TAPEWORMS (parasites) **21-803b**; **18-66c**, **23-116b**; parasitic diseases **17-271b.**
Taphozous longimanus (bat) **5-598d**
— longimanus (bat): *see* Tom-bat.
— mauritianus (bat) **5-598d.**
— melanopogon (bat): *see* Tomb-bat, Indian.
Taphrina (bot.) **9-932a**
Tapia (material) **14-572c.**
Tapicitoes, N.Mex. [24-148 C2].
Tapidung, riv., China [24-68 F7]
Taping-shan, battle of (1895) **5-590c.**
TAPIOCA (cereal) **21-805d**; **5-158c**; pearl **21-331b**; pudding **18-752d**
— -products **7-872d**
TAPIR (mammal) **21-805d**; **1-735c**; intestinal tract fig. 7 **1-632.**
Tapirapé, riv., Sp. **2-211a.**
Tapiridae (mammals) **23-969d**
Tapiro (N.G. tribe) **16-298d.**
Tapiroidea (zool.) **3-670d.**
Tapirus indicus (zool.) **21-805d.**
— terrestris (zool.) **21-806a.**
Tapis Vert (Versailles, Fr.) located **23-92b**
Tapissier de Nôtre Dame, le (nick.): *see* Luxembourg, François Henri de Montmorency-Bouteville duke of
Taplang, Jong, Nepal [24-66 B1].
Tapling, T. K. **17-715a.**
Taplow, Bucks., Eng. **3-147c.**
—, terrace, Eng. **14-347b.**
Tapolčany, Czech. [24-51 F2].
Tapolcza, Hung. [24-51 E3].
Tappaghan, mt., Ire. **9-173a.**
Tappan, Arthur (journ.) **16-355b.**
—, Arthur (mer.) **15-34c.**
—, Henry P **15-425b.**
—, Lewis **15-261c.**
—, O. [24-124 D3].
— Zee, riv., N.Y. **16-655a.** 655a.
Tappen, N.Dak. [24-136 E3].
TAPPET (mech.) **21-806a.**
— -rod (mech.) **12-497c.**
Tappi, cape, Jap. [24-75 M3].
Tapping (met.) **15-316a.**
— (process) **19-603d.**
"Tappit-topped hen" flagon Pl. I. fig. 4 **17-PEWTER.**
Taprobane, isl., Ind.O. **17-421a**; *see also* Ceylon.
Ta Prohm (Angkor Thom) **4-640d.**
Taproot (bot.) **19-543d.**
Taps (tool) fig. 3 **20-193.**
TAPS AND DIES: *see* Machine Tools.
Tapsell (navig.) **2-16a.**
TAPTI, riv., India [24-64 D4; 24-182 D4]; **21-806a.**
Tapton, Derby., Eng. [24-13 C4].
Taptu, Mong. [24-68 E2].
Ta-pu, China [24-70 C5].
Tapu (Maori rel.) **14-834c.**
Tapuaenuku, mt., N.Z. [24-173 D4].
Tapul, isl., P.I. [24-73 B4].
— (armour) **6-848a.**
Tapuri (tribe) **17-565d.**
TAPUYAN (Ges) (S.Am.Ind. tribes) **21-806a.**
Taquamenaw, riv., Mich. [24-130 F3].
Taquary, riv., Bras. [24-163 A6]; **18-43a.**
Taqui, Miv **11-574c.**
Tar, N.C. [24-112 G1].
Tar, riv., N.C. [24-112 G1]; **16-520d.**
Tar (Est. myth.) **21-825a.**
TAR: *see* Naval Stores, Coal Tar, Camphors; Wood Finishes and Gas Manufacture; *see also* oyster treatment Pl. I. fig. 6 **17-PEARL**; synthetic fuel **9-806c.**
—, coal (chem.): *see* Coal tar.
—, crude and prepared (chem.) **5-915b.**
—, wood: *see* Wood tar.
TARA, THOMAS P., 1st viscount **21-806b.**
TARA, Co.Meath, Ire. **21-806c.**
—, co., N.S.W., Austr. [24-170 E4].
—, anc. Ire.: *see* Temuir (map).
—, Ont., Can. [24-90 B2].
—, Queens., Austr. [24-169 D4].
—, isl., P.I. [24-73 B3].
—, riv., Yugos. [24-52 D3]; **15-756b.**
—, Hill of, Ire. **21-806c.**
Taraba, Arab. [24-62 C3].
—, Wadi, riv., Arab. [24-62 C3].
Tara brooch **12-619a.**
Tarafa (Arab. poet) **2-193c.**
—, Francesch **21-162d.**
Tarago, N.S.W., Austr. [24-171 J5].
Tara Hill, Ire. [24-20 E3].
TARAHUMARE (N.Am.Ind. nation) **21-806c.**
Taralumnare, mts., Mex. [24-158 C2], **15-377c.**
TARAI, tract, India [24-182 E2]; **21-806d.**
—, forest, India **3-405a.**
Tarakan, isl., Bor. [24-72 E3]; **3-906b**; map **3-905.**
Tarakeswan, India [24-66 B2].
Tarakli, Turk. [24-58 D2].
Taraku, isl., Jap. [24-75 P2].
Tarama Shima, isl., Jap. [24-75 D11].
Taranaki, dist., N.Z. [24-172 E3]
—, co., N.Z. [24-172 D3].
— Bight, North, bay, N.Z. [24-172 E3].
Tārānātha (Buddhist) **1-44d.**
TARANCHI (Asiatic people) **21-806d.**
— (dialect) **22-618a.**
Tarancon, Sp [24-33 E2].
Tarandus (zool.) **4-337d.**
Tarangan, dist., Tana-besar, Aru isls. **2-491b.**
Tarannon-Gala facies (geol.) **20-679b.**
Taransay, isl., Scot. [24-18 A4].
TARANTELLA (dance) **21-806d.**
Tarantism (dis.) **21-806d.**
Taranto, J. E. J. A. Macdonald, duke of: *see* Macdonald.
—, prov., It. **2-153d.**
TARANTO, It. [24-35 F4]; **21-806d**; *see also* Tarentum.
—, gulf, It. [24-35 F4; 24-178 J7]; **21-807a.**
— to Messina (s.s. route) [24-9 K5].
TARANTULA (Spider) **21-807b**, il. **21-215.**
Tarantula of Love, The (Fowler) **9-568a.**
TARAPACA, prov., Chil. [24-162 D7]; **21-807c.**
—, Chil. [24-162 D7].
—, desert, S.Am. **5-485d.**
— (battle, 1879) **5-500a.**
TARARE, Fr. [27- H2]; **21-807c.**
—, mts., Fr. **19-269a.**
— (Salieri): *see* Axur, re d'Ormus.
Taras Bulba (Gogol) **10-476c.**
TARASCA (Mex. Indians) **21-807c.**
Tarascan (Indian lang.) **15-382b.**
Tarascon, Ariège, Fr. [24-26 E5].
TARASCON, Bouches-du-Rhône, Fr. [24-27 H4]; **21-807d.**
Tarasius (patriarch) **12-625d**
Tara's Night (battle, 1628) **17-504d.**
Tarasp, Switz. [24-31 J4] **21-808a**; castle **8-441c** waters **15-532a.**
— -SCHULS, Switz. **21-808a**
Tarata, prov., Peru **21-737b**
—, Bol. **3-815d.**
— (bot.) **17-977c.**
Tara-tash, mt., U.S.S.R. **22-887a.**
Taravao, Tahiti [24-176 B2], **17-14b.**
Tarawera, N.Z. [24-172 F3]
—, lake, N.Z. [24-172 F3].
—, mt., N.Z. **10-820b.**
Tarawhiti, N.Z. [24-172 D1]
TARAXACUM (bot.) **21-808a**
— lucvigatum (bot.): *see* Red-seeded dandelion.
— officinale (bot.): *see* Dandelion.
— paludosum (bot.): *see* Marsh dandelion.
Tarazona, Sp. [24-33 E2]; **4-118b.**
Tarbagatai, mts., C.As. [24-68 C2]; **13-302c.**
Tarbat, George Mackenzie, viscount: *see* Cromarty.
— Ness, cape, Scot. [24-18 E4].
Tarbazan: *see* Marmot.
TARBELL, EDMUND C. **21-808a.**
—, N.H. [24-97 C4].
TARBERT, Argyll, Scot. [24-19 C6], **21-808b.**
—, Kerry, Ire. [24-21 B4], **13-353c.**
—, Ont., Can. [24-90 B3].
—, East, loch, Harris, Scot [24-18 B4].
—, West, loch, Argyll, Scot [24-19 C6], **13-192a.**
—, West, loch, Harris, Scot [24-18 A4].
Tarbes, arrondissement, Fr **11-258b.**
TARBES, Fr. [24-26 D4]; **21-808b.**
Tarboro, N.C. [24-112 H2].
—, S.C. [24-113 C4].
TARBUSH (cap) **21-808c.**
Tar cancer (disease) **4-736d**
Tarchan, Tib. [24-65 E2].
Tarchon (myth.) **21-753d.**
Tarco, riv., It. [24-34 C2]
Tarcolès, riv., C.R. **6-497c.**
Tarcoola, Austr. [24-170 B3]
Tarcza, riv., Czech. noted **16-452d.**
Tarcutta, N.S.W., Austr. [24-171 H5].
Tardas Passiones (Soranus of Ephesus) **2-695a.**
TARDE, GABRIEL **21-808c.**
Tarde, Jean **4-660b.**
Tardenois (battle, 1918) **14-933c.**
Tardenoisean culture **2-242d**
Tardes, riv., Fr. **6-687d.**
Tardets, Fr. [24-26 C4].
TARDIEU, ANDRÉ P. G. A (Fr. pol.) **21-808c.**
TARDIGRADA (zool.) **21-808d**; *see also* Sloth.
TARDIVEAU, RENÉ: *see* Boylesbe, René.
Tardoire, riv., Fr. [24-26 D2]; **5-245c.**
Tardu (Turk, ruler) **22-624b**
Tare (bot.): *see* Vetch.
Tareena, N.S.W., Austr. [24-170 E4].
Tarels incident (1924) **10-792a.**
Tarell, riv., Wales **4-82c.**
Tarella, N.S.W., Austr. [24-170 F3].
Tärendö, Swed. [24-42 L3].
Tarentaise, Pierre de: *see* Innocent V. (pope).
—, dist., Fr. [24-27 K2].
Tarentilla (play, Naevius) **7-585b.**
Tarentine-Ionic alphabet **15-304a.**
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TARENTUM, Pa. [24-106 B3]; **21-809c.**
Tares (agri.) **3-617c.**
Tarets (race): *see* Shan.
Tarfa (tree) **21-505c.**
Tarfaya, Rio de Oro [24-78 B3].
Tar Fork, Ky. [24-116 D3].

Target (shooting) 20-809a.
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TARGOVISTEA, Rum. [24-53 C3]; **21-809d.**
Targowica, Pol. [24-41 G3]; **18-144d.**
TARGU-JIU, Rum. [24-53 B3]; **21-809d.**
Targul-Mures, Rum. [24-33 C2].
— Sacuieso, Rum. [24-53 D2].
TARGUM (Heb. lit.) **21-809d.**
Targums (O.T.) **3-505c.**
TARGU-MURES, Rum. **21-812a.**
— **NEAMTU**, Rum. **21-812a.**
— **OCNA**, Rum. **21-812b.**
Tarheel, N.C. [24-112 G3].
— State (nick.): *see* North Carolina.
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—, pt., Sp. [24-178 D8].
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Tarim, dist., **11-120a**; **13-510d.**
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Tar'in, Trans-Jordan [24-60 D5].
Tariq (gov Tangier) **4-602d**, *see also* Tarik.
—, mt. of: *see* Gibraltar.
Tarkalanri (tribe). *see* Tarkani.
Tarkani (tribe) **2-943a**
Tarkan-kut, cape, U.S.S.R [24-49 D5].
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Tarkastad, Cape Col. [24-81 D4].
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— Mica, riv., Rum. [24-53 C2].
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Tarnowskie, Pol. [24-40 D3]
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Taro, riv., It. **12-754d.**
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Tar oil **10-710c.**
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Tarrafal, bay, Cape Verde Isls. **4-702a.**
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—, riv., Eng: *see* Arun
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Tarryall, Colo. [24-147 E2]
—, mts., Colo. [24-147 E2]
Tarry cyst **11-39b.**
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— subterraneum: *see* Subterranean clover.
TRIFORIUM **22**-470d.
Triftjoch, pass, Switz. [**24**-30 D4]
Trig. (abbrev.) **1**-26c.
Trigae **5**-721c.
Trigeminal nerve **16**-233b; **20**-819d; fig. 3 **4**-10; fig. 9 **4**-14; neuralgia **16**-256d; **4**-22a; **8**-342c.
Trigg, co., Ky. [**24**-116 C4].
—, Ark. [**24**-120 C4].
Trigger (curling). *see* Tramp.
TRIGGER-FISH: *see* File-fish; *see also* **9**-325c; Pl. fig 3 **2**-AQUARIUM.
— gap **21**-169c.
Triggs, Inigo **13**-666b.
Trigla **9**-325c. *see* Gurnard.
Triglav, mt., It.: *see* Tricorno.
—, mt., Yugos. [**24**-52 A1]; **13**-179b.
— (myth.) **20**-791a.
Triglidae **9**-323b fol.
Triglyph **7**-540b.
Trigno, riv., It. **12**-756a.
Trigo, Calif. [**24**-155 D4].
- -, mts., Ariz. [**24**-149 A5].
Trigon (game) **2**-993b.
Trigona (bee) **20**-884c; **11**-716a.
Trigonal division (crystall.): *see* Rhombohedral division.
— prism **6**-819d fol.
Trigone **22**-898b.
Trigonella Foenum-graecum: *see* Fenugreek.
Trigonelline **3**-479c.
Trigonia **1**-71d.
Trigonocarpon **17**-78c.
Trigonocephalus contortrix: *see* Copperhead.
Trigonometric series: *see* Fourier series.
TRIGONOMETRY **22**-471b; **6**-895b; **1**-606a, Euler **8**-811d; functions **15**-79d; Hipparchus **18**-734b fol.; polynomials **18**-191d, spherical **22**-473c.
Trigonum hypoglossi ll. 2 **4**-9.
— vagi fig. 2 **4**-9
Triguères, Fr. [**24**-25 H4].
Trigu Tso, lake, Tib. [**24**-66 C1].
Trihedral angle **1**-928d.
Trihydroxyglutaric acid **21**-391b.
Trihydroxytriphenylselenonium chlorides **20**-301b.
Trika, Gr.: *see* Trikkala.
Trikeri, chan., Gr. [**24**-55 C3].
TRIKKALA, Gr. **22**-476c.
Trikoupis, Charilaos: *see* Tricoupis
Trilby, Fla. [**24**-115 F3].
Trilinear co-ordinates **6**-391c.
Trilingen (castle, Holl.) **21**-93d.
Trilithon (ruin, Baalbek) **2**-835c.
Trilla, Ill. [**24**-129 D4].
Trillick, N.Ire. [**24**-20 D2].
TRILLIUM **22**-476c.
TRILOBITA **22**-476d; **2**-201b fol.; **2**-204a, Cambrian **4**-645c, carboniferous **4**-846a; Ordovician **16**-871b; Silurian **20**-679c.
Trilochan (teacher) **12**-164b.
Trilogy **7**-584b; **10**-835c.
Trilport, Fr. [**24**-25 H3].
TRIM, Ire. [**24**-20 E3]; **22**-477b.
Trimanganese tetroxide **14**-797c.
Trimberg, Hugo von (au.): *see* Hugo von Trimberg.
Trimble, co., Ky. [**24**-116 E2].
—, Ala. [**24**-118 C1].
—, Ill. [**24**-129 E4].
—, O. [**24**-125 C4].
—, Tenn. [**24**-117 B1].
Trimdon, Dur., Eng. [**24**-13 C3].
Trimeresurus **23**-178c: *see also* Haby.
— gramineus **23**-178c.
Trimerous (bot.) **9**-410d.
Trimeter (verse) **12**-28d.
Trimethylacetic acid: *see* Pivalic acid.
Trimethylamine **1**-815b; **8**-683c.
Trimethyl carbinol **4**-472c; **12**-723a.
Trimethylenediamine **1**-815b.
Trimethylene glycol **10**-448c.
Trimethylglucose **4**-835d.
Trimethyl platinic hydroxide **16**-898c.
— platinic iodide **16**-898c.
Trimethylpyridine **18**-797d.
Trimethylstibine **2**-68d.
Trimethylvinylammonium hydroxide: *see* Neurine.
Trimetric system (crystall.): *see* Orthorhombic system
Trimley, Ess., Eng. [**24**-15 E4].
Trimmer (nick.): *see* Halifax, George Savile, 1st marquess of.
—, Joshua **10**-374c.
—, Mrs. (au.) **5**-474c.
Trimming (carpentry) **4**-914b.
— (coal) fig. 7 **4**-387.
— die fig. 5 **7**-671.
— joist **4**-914b.
— machine (bookbinding) **3**-860a; Pl. VI. figs. 2, 3 **3**-BOOKBINDING.
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— tank **21**-494b.
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TRIMONTIUM, ft., Scot. **22**-477c; map **4**-160a.
Trimorphous crystals **6**-828c.
Trimoulle, isl., W.Aus., Austr. [**24**-168 B3].
Trimountaine, settlement, Mass.: *see* Shawmut.
Trimount vacuum pump **22**-929b.
Trimūrti (rel.) **11**-577c.
Trinacria, isl., Medit.: *see* Sicily.
Trincheira, Braz. **17**-200d.
Trinchera, Colo. [**24**-147 F4].
TRINCOMALEE, Cey. [**24**-67 D5]; **22**-477c; **7**-882a; **5**-177b.
Trindelburg, Ger. [**24**-38 E2].
Trine, Mont. [**24**-114 D2].
Tring, Que., Can. [**24**-80 C2].
TRING, Herts., Eng. [**24**-15 C4]; **22**-477d.
Tringa alpina: *see* Dunlin.
— alpina sakhalina: *see* Red-backed sandpiper.
— erythropus: *see* Redshanks; Black redshank.
— glareola: *see* Wood sandpiper.
— hypoleucus: *see* Sandpiper.
— nebularia: *see* Greenshank.
— ochropus: *see* Green sandpiper.
— schinzi **7**-742d.
— temminckii: *see* Temminck's stint.
— totanus: *see* Redshank.
Trinh (fam) **1**-981c.
Trinidad, Bol. [**24**-162 D6]; **3**-815d.
—, Braz. [**24**-160 C3].
—, Calif. [**24**-154 A2].
TRINIDAD Colo. [**24**-147 F4]; **22**-478a.
TRINIDAD, Cu. [**24**-157 C2]; **22**-477d.
—, Urug. [**24**-165 E3].
TRINIDAD, isl., Braz. **22**-479b; **2**-715a; **21**-67c.
TRINIDAD, isl., W.I. [**24**-157 F4]; **22**-478a; **6**-81d; army **10**-682b; asphalt **2**-549d; cocoa **5**-947a; Pl. I. figs. 1, 3, 5 **5**-COCOA; coolies **6**-375c; forests **9**-502d; geol. **23**-534b; indus. **23**-535d fol.; petroleum **17**-662d fol.; **23**-536a; pop. **23**-535a; **4**-175c; women's suffrage **23**-711d.
— (cacao) **23**-52a.
—, val., Cu. **6**-833d.
Trinità della Cava, la (It.) **5**-64d.
TRINITARIANS **22**-479c.
Trinitario (cacao): *see* Trinidad.
Trinitate, De (St. Augustine) **2**-683d.
Trinité, ft., Martinique [**24**-157 F4].
—, La (Cherbourg) **5**-416d.
Trinitrine **19**-2a.
Trinitrobenzene **3**-989c; **16**-467b.
Trinitrocellulose **10**-988a.
Trinitro-meta-cresol **4**-839d.
Trinitrophenol: *see* Picric acid.
Trinitrotoluene **22**-275d; **5**-915a; **8**-988a fol.; **4**-839d *see also* Explosives; Nitroglycerine; Blasting; Chemical Warfare; Medicine, Articles on.
Trinity, co., Calif. [**24**-154 B2].
—, co., Tex. [**24**-123 G4].
—, Ala. [**24**-118 B1].
—, Ky. [**24**-116 G2].
—, Miss. [**24**-119 D2].
—, N.C. [**24**-112 E2].
—, Nfd. [**24**-93 D2].
—, Tex. [**24**-123 G4].
—, bay, Bonavista Bay, Nfd [**24**-93 D2].
—, bay, Que., Can. [**24**-89 C1].
—, bay, Queens., Austr. [**24**-169 C2]
—, bay, Trinity Bay, Nfd [**24**-93 D2].
—, isl., Arct. O.: *see* Jan Mayen.
—, isls., Alsk. [**24**-156 J8]
—, riv., Calif. [**24**-154 B2]
—, riv., Tex. [**24**-123 G4, **24**-189 G4].
TRINITY (rel. doctrine) **22**-479c, **22**-65c, Abélard **1**-33a; and adoptianism **1**-177b; in Christianity **5**-633c, **6**-658d fol; Erigena **8**-688a; Roscellinus **19**-552a, Sabellianism **19**-700a, St. Matthew **3**-82c; Theism **22**-51c.
— (term) **21**-948d.
"Trinity" (Catena) **5**-29c
— (almshouses, Lond.) **14**-352c.
— (chapel, Canterbury) **4**-766b.
— church, (Boston, Mass.) **3**-935c; Pl. V. fig 6 **15**-MODERN ARCHITECTURE.
— church (Copenhagen) **6**-398a.
"Trinity and Saints" (Raphael) **18**-982c.
— Bay, co., Nfd. [**24**-93 C2]
— Center, Calif. [**24**-154 B2]
— Church (N.Y.C.) **16**-387c
— College (Cambridge) **22**-865c; **4**-652c; Bentley **3**-419c; foundation **22**-868b, library **14**-5b; Pl. figs. 1 4, 5 **4**-CAMBRIDGE; **23**-804a; Newton **16**-671b.
— College (Dublin) **7**-700c, *see also* Dublin University
— College (Conn.) **11**-226b.
— College (Scot.): *see* Glenalmond.
— College (N.C.): *see* Duke University.
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— High Water **7**-474a.
— hospital, Edinburgh, Scot. **7**-960a.
— hospital, Leicester, Eng. **13**-890a.
— House, Leith, Scot. **13**-890d.
— **HOUSE, CORPORATION** of **22**-480d; **14**-88c fol; **14**-102a fol.; **9**-346d.
— Masters **16**-175c.
— Springs, Ind. [**24**-127 B4]
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—, Gr. [**24**-54 B3].
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Trionfi 7-588c.
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—, Ill. [**24**-128 B2].
—, Kan [**24**-142 E4].
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—, Mich. [**24**-130 F3].
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— ocellata (bot.). *see* Western heart's-ease.
— odorata (bot.): *see* Sweet violet.
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— pedata (bot.): *see* Bird's-foot violet.
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— rostrata (bot.): *see* Beaked violet.
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—, prefct., Jap. [24-75 M4].
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—, prefct., Jap. [24-74 G6].
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Yamasee (tribe) **16-26a.**
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Yamaska, co., Que., Can. [24-89 B2].
—, Que., Can [24-89 B3].
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—, prov., Jap. **12-895d.**
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BAKER, THOMAS, D.Sc., F.I.C., F.INST.P. Cast-Iron; Crucible Cast Steel; Furnace; etc.

BALDERSTON, LYDIA RAY, M.A. Laundry Work.

BALDWIN, L. W., B.S., C.E. Missouri Pacific Lines

BALFOUR, SIR ISAAC BAYLEY, M.D., F.R.S. Angiosperms (*part*).

BALL, CARLETON R., M.S., D.Sc. Wheat (*in part*).

BALL, W. VALENTINE, O.B.E., M.A. Appeal (*in part*); Bankruptcy (*in part*); Practice and Procedure (*in part*); etc.

BALLARD, P. B. Examinations (*in part*).

BALLOD, KARL. Latvia (*in part*).

BALZER, W. H. Clocks (*in part*).

BANBURY, SIR HENRY NOEL, K.C.B. Blue Book Rates.

BANTON, JOAB H. Indictment (*in part*).

BARBER, COLONEL ALVIN BARTON. Rule of the Road (*in part*).

BARBER, E. A., M.A. Catullus, Gaius Valerius.

BARBER, EDITH M., M.S. Cereals (*in part*).

BARBER, WILLIAM EDMUND. Censorship (*in part*).

BARCLAY, SIR THOMAS, LL.B., PH.D. Arbitration, International (*in part*); International Law, Public; Pacific Blockade (*in part*); etc.

BARCROFT, JOSEPH, C.B.E., M.A., B.Sc., M.D., F.R.S. Anoxaemia; Blood; Excretion; Physiology; Pigments of the Skin and Hair; Respiration.

BARDGETT, WALTER A. Motorcycles (*in part*); Motor Racing (*in part*).

BARING, WING-COMMANDER HON. MAURICE, O.B.E., F.R.S.L. Taine, Hippolyte Adolphe (*in part*).

BARKER, ALDRED FARRER, M.Sc. Felt; Wool (*in part*); Woolen Manufacture; Yarn; etc.

BARKER, B. T. P., M.A., HON.F.R.H.S. Cider (*in part*); Perry.

BARKER, ERNEST, M.A., LITT.D., LL.D. Aristotle; Crusades; Diet; Electors; etc.

BARKER, E. PHILLIPS, M.A., D.LITT. Folk-Dancing.

BARKER, SIR HERBERT ATKINSON. Manipulative Surgery.

BARKER, L. F. Endocrinology (*in part*).
BARMAN, CHRISTIAN. Bridges (*in part*).
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Bread Manufacture (*in part*); Flour Manufacture (*in part*).
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Roman Catholic Church (*in part*).
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BARNHART, HARRY. Community Singing.
BAROU, N. Moscow Narodny Bank, Ltd.
BARRON, OSWALD, F.S.A.
Cecil (Family); etc.; Genealogy (*in part*); Heraldry; etc.
BARROWCLIFF, M. Dyes, Synthetic (*in part*).
BARROWS, ALICE PRENTICE, A.B. Platoon School.
BARROWS, HARRY HOLBROOKE, C.E. Agricultural Engineering.
BARTLEET, H. W. Cycling (*in part*).
BARTLET, JAMES VERNON, M.A., D.D.
Acts of the Apostles; Apostle; Barnabas, Epistle of; Hebrews, Epistle to the; Luke; Mark, St.; etc.
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Experimental Psychology; Vision (*in part*).
BARTLETT, JAMES. Carpentry; Masonry; Stone.
BARTOLI, ADOLFO. Italian Literature (*in part*).
BARUCH, BERNHARD MANNES, LL.D.
Industry, War Control of (*in part*); Raw Materials.
BARWICK, GEORGE FREDERICK, B.A. Midhat Pasha.
BASSETT-LOWKE, W. J. Models and Model-Making.
BASTABLE, CHARLES FRANCIS, M.A., LL.D., F.B.A.
Bimetallism; Decimal Coinage.
BATEMAN, HARRY. Elasticity; Hydromechanics.
BATES, ESTHER W. Pageant (*in part*).
BATHER, FRANCIS ARTHUR, M.A., D.Sc., F.R.S.
Echinoderma; Sea Urchin; Star-Fish; Zoological Nomenclature.
BATIGAN-VERNE, D. Organ (*in part*).
BATTEN, A. G. M. Credit, Insolvency or Bad Debt Insurance (*part*); Engineering Insurance (*part*); Motor Vehicle Insurance (*part*); etc.
BAUDHUIN, FERNAND. Belgium (*in part*).
BAUFRE, WILLIAM L. de, E.E., M.E., M.S.
Steam Generation (*in part*).
BAX, VICE-ADMIRAL ROBERT NESHAM, C.B., R.N.(retired).
Blockade (*in part*); Submarine Campaign.
BAXANDALL, DAVID, A.R.C.S., F.R.A.S. Calculating Machines; Ellipsographs; Graduation; Mathematical Instruments.
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BEACH-THOMAS, SIR W., K.B.E. Cereals (*in part*).
BEADON, LIEUTENANT-COLONEL ROGER HAMMET, C.B.E., R.A.S.C. Supply and Transport, Military (*in part*).
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International Law, Private (*in part*).
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BEARD, DANIEL CARTER, C.E. Woodcraft.
BEARD, W. M. Union Carbide and Carbon Corporation.
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Distemper (*in part*); Luminous Paint; Paint; Varnish; etc.
BEASLEY, HARRY G. Micronesia; Polynesia.
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Canadian Pacific Railway Company.
BEAUJON, PAUL. Books (*in part*).
BEAZLEY, CHARLES RAYMOND, M.A., D.LITT., F.R.G.S., M.R.A.S.
Columbus, Christopher; Cook, James; Dampier, William; Leif Ericsson; Ptolemy (*in part*); etc.
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BECKE, ARCHIBALD FRANK, HON.M.A. Waterloo Campaign, 1815.
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BELAR, KARL. Protozoa.
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Tibet (*in part*).
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Davidson, Randall Thomas.
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Baluze, Etienne; Bearn; Chronicle.
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Dreiser, Theodore; Masters, Edgar Lee.
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Angel (*in part*); Balaam (*in part*).
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Conspiracy (*in part*); Workmen's Compensation (*in part*); etc.
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BERNSTEIN, EDUARD. Bebel, August; Marx, Karl Heinrich (*in part*).
BERNUS, PIERRE.
Briand, Aristide; Painlevé, Paul; Poincaré, Raymond, etc.
BERRY, ARTHUR. Elliptic Functions.
BERRY, SIR GEORGE ANDREAS, M.B., LL.D., F.R.S.E.
Eye, Diseases of.
BERRY, SIR WILLIAM JOHN, K.C.B.
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Rumanian Language and Literature (*in part*).
BEZZANT, REV. J. S., M.A. England, Church of.
BHOWNAGGREE, SIR MANCHERJEE MERWANJEE.
Patel, Framjee Nasarwanjee.
BIBESCO, PRINCE ANTOINE.
Rumanian Language and Literature (*in part*).
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BICKNELL, EDWARD JOHN, D.D. Athanasius "The Great".

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BIDOU, HENRI.
Joffre, Marshal; Lanrezac, General; Pétain, Marshal.
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Callao; Cerro De Pasco; Lima; Peru; etc.
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Catchment Areas; Reservoirs.
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Chinese Painting; Japanese Painting and Prints.
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Angola (*in part*); Portuguese East Africa (*in part*); etc.
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Goethals, George Washington; Panama Canal (*in part*).
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Gibbon, Edward (*in part*); Mazzini (*in part*).
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Malay Language (*in part*).
BLAIR, JAMES. Nippon Yusen Kaisha.
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Finland (*in part*), Vilna (*in part*); etc.
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Icelandic Literature (*in part*); Sigurdsson (*in part*).
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Drama (*in part*); English Literature (*in part*); etc.
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Canaan, Canaanites; Abraham; Amorites.
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Gastric and Duodenal Ulcer.
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Canada (*in part*).
BORDLIK, VLADISLAV, PH.D. Czechoslovakia (*in part*).
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Flint; Gravel or Pebble Beds; Limestone; Marl; Sand; Sandstone; Sedimentary Rocks; etc.
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Conversion (*in part*); Grace; Solomon, Odes of.
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Roman Catholic Church (*in part*).
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Plants (*in part*); Pteridophyta.
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Pathology.
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Music, Teaching of (*in part*).
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BOYNTON, PERCY HOLMES, A.M. Novel (*in part*).
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Centipede; Millipede; Pauropoda.
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BRADSHAW, PERCY V. Poster (*in part*).
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BRAESCH, F. Alsace-Lorraine.
BRAILSFORD, HENRY NOEL, M.A. Soviet System.
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Aviation, Civil (*in part*).
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Charlemagne Legends; French Language; Provençal Language and Literature (*in part*); Romance Languages; etc.
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Mural Painting.
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Easter Island; Oceania (*in part*).
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Ikhnaton.

BRECK, EDWARD, PH.D.
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Weed Destruction.
BRENIER, HENRI. Indo-China, French; Morocco (*in part*).
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BRETT, MICHAEL. Salvage (*in part*).
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BRIDGMAN, GEORGE B. Drawing, Anatomical (*in part*).
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Muscle, Structure of; Phagocytosis.
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Tacitus, Cornelius (*in part*).
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Baker, Newton Diehl; Progressive Party.
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Malaria (*in part*).
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Fold; Joints.
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Edwards, Jonathan.
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BROWNLEE, JOHN, D.Sc., M.D., D.P.H. Epidemiology (*in part*).
BROWNLOW, RT. REV. WILLIAM R., M.A., D.D.
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BRUCE, BRIGADIER-GENERAL HON. CHARLES GRANVILLE, C.B., M.V.O. Everest, Mount.
BRUCE, CHARLES MATTHEWES, M.A.
Pensions: Navy, Army and Air Force.
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BRUGEL, FRITZ, D.PH. Kautsky, Karl.
BRUINS, G. W. T. Holland (*in part*).
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Diffusion (*in part*).
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Public Health (*in part*).
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BUCKERIDGE, GUY LESLIE, M.R.C.S., L.R.C.P.
Medical Service, Navy (*in part*).
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Balfour, Lord (*in part*); Grey of Fallodon (*in part*); Law, Andrew Bonar; McKenna, Reginald.
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BUCKLEY, J. W., M.Sc. Electric Furnaces.
BUCKLEY, MILLARD. Rolls-Royce Limited.
BUCKMAN, H. O., M.S., PH.D. Physical Resources (*in part*).
BUDD, EDWARD G. Motor Car (*in part*).
BUDD, RALPH, B.S. Great Northern Railway Company.
BUDDEN, LIONEL BAILEY, M.A., A.R.I.B.A.
Architectural Education.
BUDDENBROCK-HETTERSDORF, WOLFGANG VON.
Hearing, Sense of; Sight, Sense of; Smell and Taste, Sense of; Touch, Sense of.
BULL, A. J., M.Sc., F.INST.P. Bank Notes (*in part*).
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BULLOCKE, J. G., M.A. Austrian Succession, War of; French Revolutionary Wars (*part*); Napoleonic Campaigns (*part*); Trafalgar, The Battle of (*part*); etc.
BULLOUGH, EDWARD, M.A. Cambridge University (*in part*).
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Pompeii (*in part*); Ptolemy (*in part*).
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Standards, National Bureau of.
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Apocalypse; Bible (*in part*); Syriac Language; etc.
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Archaeology (*in part*); Eoliths; Flints; Typology.
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Diesel Engine (*in part*); Internal Combustion Engines.
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Airship; Airship Sheds.
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School Hygiene and Physical Education.
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Canadian Literature; Montreal; Ottawa.
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Big Game Hunting; Pig Sticking.

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Absolution; Confession; Confirmation; Prayers for the Dead.
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BUSH, VANNEVAR. Harmonic Analysis; Product Integraph.
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Columbia University; Universities (*in part*)
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BUXTON, TRAVERS, M.A. Slavery Convention.
BYRD, HARRY FLOOD. Virginia.
BYRD, RICHARD EVELYN. Peary, Robert Edwin.
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CADBURY, H. J. Luke, Gospel of.
CADMAN, SIR JOHN, K.C.M.G., D.Sc., F.G.S., M.I.C.E.
Anglo-Persian Oil Company, Ltd.
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Binomial Formula; Geometry (*in part*); Logarithms.
CALDER, FRANK. Ice Hockey (*in part*).
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Black Body; Calibration; Calorimetry; Heat; Thermodynamics (*in part*); Thermometry; Vaporization.
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Balkan Wars; Dardanelles Campaign; Mesopotamia, Operations in.
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Arthropoda; Branchiopoda; Cirripedia; Crab; Cray Fish; Crustacea; Lobster; Rotifera (*in part*); Shrimp; etc.
CALMES, ALBERT. Albania (*in part*); Luxembourg.
CAM, HELEN, M.A., F.R.HIST.S.
Borough (*in part*); Mayor (*in part*).
CAMBON, JULES. Security.
CAMBRIDGE, MRS. V. M.
Coasting (*in part*); Ski (*in part*); Winter Sports.
CAMMAERTS, EMILE, C.B.E., HON.LL.D., F.R.HIST.S.
Belgian Literature (*in part*); Mercier, Desiré.
CAMPBELL, E. Rule of the Road (*in part*).
CAMPBELL, REV. LEWIS, D.C.L., LL.D.
Jowett, Benjamin (*in part*).
CAMPION, BERNARD, K.C., LL.B. Banker and Customer (*part*).
CANA, FRANK RICHARDSON, F.R.G.S.
Stanley, Sir Henry Morton; Africa (*part*); Congo Free State; Nigeria (*part*); South Africa, Union of (*part*); and fifty-three other articles on African geography and history.
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CANNON, WALTER BRADFORD, A.M., M.D., Sc.D., LL.D.
Hunger and Thirst.
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Education (*in part*).
CAPPER, ARTHUR. Kansas.
CAPPER, W. BENTLY. Hotel (*in part*).
CARLISLE, HENRY W. Guaranty Trust Company.
CARLSEN, EMIL. Still-Life Painting.
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CARLTON, NEWCOMB, M.E., A.M.
Telegraph; Western Union Telegraph Company, The.
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Entomology (*in part*).
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Eugenics; Optimum Population; Population.
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Standard of Living (*in part*).
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Rumania (*in part*); Turkey (*in part*).
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Imperial Economic Committee.
CHADWICK, HECTOR MUNRO, M.A., HON.D.LITT., F.B.A.
Britain (*in part*); Anglo-Saxons; Goths (*in part*); Jutes; Teutonic Peoples (*in part*); Thor.
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California (*in part*); Cuba (*in part*).

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Inclinometer; Magnetograph; Magnetometer.

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Heart, Comparative Physiology of.

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Bessemer Steel; Blast Furnace.

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Borneo (*in part*); Malay Peninsula (*in part*); Malay States (*in part*); Singapore; etc.

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Gas Manufacture (*in part*).

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Beauty Culture; Face Creams; Manicuring; etc.

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Electrical Power Transmission (*in part*).

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Ravel, Maurice.

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East Africa, Operations in; South-West Africa, Campaign in.

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Strikes and Lock-outs (*in part*); Wages: Statistics of (*in part*).

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Compton Effect.

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Frontier, Battles of the (*in part*).

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Hastings, Warren (*in part*); Omichund.

COTTON, ROBERT C. Supply and Transport, Military (*in part*).

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Fume Precipitation, Electrical.

COULTON, GEORGE GORDON, M.A., HON.D.LITT.
Celibacy; Concubinage; Reformation; etc.

COUPLAND, R. British Empire (*in part*).

COURSEY, PHILIP R., B.Sc., M.INST.P., M.I.M.E.
Condenser, Electrical.

COURTNEY, GILES L., A.M., B.C.S., C.P.A.
Account; Account Current; Accounts Payable Ledger; Accounts Receivable; Accrued Income; Current Assets; etc.

COURTNEY, JANET ELIZABETH, O.B.E., J.P.
Chisholm, Hugh; Alexandra, Queen; George V. (*in part*).

COWARD, T. A. Bird Sanctuaries (*in part*).

COWIE, R. E. M. American Railway Express Company.

COWL, RICHARD POPE, M.A.
Icelandic Literature (*in part*); Saga (*in part*); etc.

COWLES, W. G., LL.B.
Engineering Insurance (*in part*); Industrial Accidents (*in part*).

COWLEY, ARTHUR ERNEST, D.LITT., F.B.A.
Samaritans; Seadiah, Ben Joseph.

COX, H. E., M.Sc., PH.D., F.I.C.
Food Preservation (*in part*); Jams and Jellies (*in part*); Vinegar.

COX, ISAAC JOSLIN, A.B., PH.D.
Chile (*in part*); Wilkinson, James.

COX, MONTAGUE H. City Government (*in part*).

COX, MAJOR-GENERAL SIR PERCY ZACHARIAH, G.C.M.G., K.C.S.I., G.C.I.E., F.R.G.S. 'Iraq (*in part*); Persia (*in part*); Persian Gulf; and articles on Persian topography and geography.

COX, WARREN E. Decorative Art; Lamp (*in part*); Lighting and Artificial Illumination (*in part*); Periods of Art; Sculpture Technique (*in part*); Technique in Art; etc.

COX, WILLIAM B. Chain Gang.

CRACKANTHORPE, MONTAGUE HUGHES, K.C., D.C.L., M.A
Arbitration, International (*in part*); Mediation (*in part*).

CRADDOCK, SIR REGINALD HENRY, G.C.I.E., K.C.S.I.
Bhandara; Bilaspur; Central Provinces and Berar; Chhindwara;

CRAFT, HERBERT.
Corn Laws; Exports, Invisible; Export Statistics; etc.

CRAIES, WILLIAM FEILDEN, M.A.
Game Laws (*in part*); Habeas Corpus (*in part*); Trade Ma (*in part*); Warrant (*in part*); Witness (*in part*); etc.

CRANAGE, VERY REV. DAVID HERBERT S., LITT.D., F.S HON.A.R.I.B.A. University Extension (*in part*).

CRANE, C. HOWARD. Theatre (*in part*).

CRANE, J. B. Steam Generation (*in part*).

CRANE, WALTER. Arts and Crafts (*in part*).

CRAVEN, THOMAS TINGEY. Aircraft in War (*in part*).

CRAWFORD, NELSON ANTRIM, M.A. Agricultural Labourer *part*); Farmers' Clubs (*in part*); Nonpartisan League; etc.

CRAWFORD, OSBERT GUY STANHOPE, F.S.A.
Archaeology (*in part*); Barrow; Mound-Builders.

CREAK, CAPTAIN ETTRICK W., C.B., R.N., F.R.G.S., F.R.S.
Compass (*in part*).

CREED, THE REV. JOHN MARTIN, B.A., B.D.
Baptism; Bible (*in part*); Eucharist (*in part*).

CREIGHTON, CHARLES, M.A., M.D. Monster (*in part*).

CRET, PAUL PHILLIPPE.
Library Architecture; Museum Architecture (*in part*); Renaissa Architecture (*in part*); Stadium (*in part*).

CREW, F. A. E., M.D., PH.D., D.Sc., F.R.S.E.
Breeds and Breeding; Genetics; Hybridism; Mendelism; Selec (*in part*); Sex (*in part*); Sterility; etc.

CRIPPS, REV. RICHARD SEYMOUR, M.A. Amen.

CRIST, RAYMOND F., D.D.S., LL.B.
Nationality and Naturalization (*in part*).

CROCE, BENEDETTO. Aesthetics.

CROCKER, W., A.B., D.PH. Weeds.

CROCKETT, WALTER HILL. Vermont.

CROMMELIN, ANDREW CLAUDE de LA CHEROIS, B.A., D Comets; Eros; Minor Planet; Trojan Planets.

CROSS, CHARLES FREDERICK, F.R.S. Fibres.

CROSS, HAROLD L. Press Laws (*in part*).

CROSWELL, V. R., B.CH.E. Naval Stores.

CROWDER, ENOCH HERBERT, LL.D. Conscription (*in part*).

CROWDY, DAME RACHEL ELEANOR. Child Welfare and C Labour (*in part*); Opium Traffic; White Slave Traffic.

CROWE, SIR EDWARD THOMAS FREDERICK, C.M.G. Cor

CROWE, G. E. W. Household Appliances (*in part*); Refrigerators

CROWE, J. A. Cigarette (*in part*).

CROWE, BRIGADIER-GENERAL JOHN HENRY VERINDER, (Plevna; Shippa Pass.

CROWE, SIR JOSEPH ARCHER, K.C.M.G.
Van Eyck; Holbein; Van Der Neer (*in part*); etc.

CROWNE, IRVING H., E.E., M.S. Magneto, High Tension.

CROWTHER, SAMUEL, B.S., LL.B. Ford, Henry.

CRUMP, NORMAN E. Banks, History of (*in part*); Currency; change, Foreign; etc.; Gulden; Rupee; Yen; etc.

CUBBERLEY, ELLWOOD P., PH.D., LL.D.
Education (*in part*); School Administration in the United State

CULIN, STEWART. Dolls; Head-dress; Masks (*in part*).

CULLEY, A. B., F.I.A. Agents in Business.

CUMMINGS, STEVENSON LYLE, C.B., C.M.G., M.D., LL.D.
Influenza; Tuberculosis (*in part*).

CUNLIFFE, JOHN WILLIAM, M.A., D.LITT.
Journalism, Schools of (*in part*).

CUNO, WILHELM. Hamburg-Amerika Line.

CUNYNGHAME, SIR H. HARDINGE, K.C.B., M.A.
Clocks (*in part*); Watches (*in part*).

CURRAN, C. P., M.A. Irish Literature (*in part*).

CURRY, M. J. Western Pacific Railroad Corporation, The.

CURTIS, EDMUND, M.A.
Ireland (*in part*); Robert Guiscard; Roger I.; etc.

CURTIS, WILLIAM EDWARD, D.Sc., A.R.C.S., D.I.C., F.R.A.S
Band Spectrum.

CURTISS, DAVID RAYMOND, A.M., PH.D.
Bessel Function; Function.

CUSHENDUN, THE RT. HON. LORD.
Bunker Hill; Grattan, Henry; Jeffreys, George Jeffreys.
CUSSONS, G. W. Mathematical Models.
CUTLER, D. WARD, M.A. Soil (*in part*).
CUTTER, VICTOR M., B.L., M.C.S. United Fruit Company.
DAHL, J. O. Food Service.
DAKIN, W. J., D.Sc., F.L.S., F.Z.S. Onycophora.
DAKYNS, ARTHUR L., M.A. Co-Partnership.
DALBY, W. E., M.A., B.Sc., M.INST.C.E., M.I.MECH.E., F.R.S.
Bearings; Dynamometer; Power Transmission (*in part*).
DALE, H. E., C.B., M.A. Agricultural Education (*in part*).
DALGAS, FREDERICK. Potteries and Porcelains (*in part*).
DALLIMORE, W. Arboriculture (*in part*); Tree Planting.
DALTON, H. E. Studebaker Corporation, The.
DALTON, ORMONDE MADDOCK, M.A., F.S.A.
Catacombs (*in part*).
DALTON, W. Bridge (*in part*); Baccarat; Contract Bridge; etc.
D'AMICO, SILVIO. Pirandello, Luigi.
DAMPIER-WHETHAM, WILLIAM CECIL, M.A., F.R.S. Electrical Power in Agriculture (*in part*); Electrolysis (*in part*); Science.
DANIELS, A. M., B.S., E.E. Chimney (*in part*).
DANIELS, HARRY J. Burial (*in part*).
DANNATT, C. W., D.I.C., A.R.S.M. Assaying.
DARROW, GEORGE M., A.M., PH.D. Currant.
DARTON, F. J. HARVEY. Children's Books (*in part*).
DARVINGOFF, COLONEL PETER. Turkey (*in part*).
DARWIN, BERNARD. Golf (*in part*).
DARWIN, C. G., M.A., F.R.S. Light; Zeeman Effect.
DAS, H. Dutt, Toru; Ghose, Lalmohun.
DASENT, ARTHUR IRWIN. Speaker.
DAVENPORT, MAJOR CYRIL JAMES, F.S.A., F.L.A. Mezzotint.
DAVEY, WILLIAM N. Marine Insurance (*in part*).
DAVIDS, CAROLINE A. F. RHYS, D.LITT., M.A.
Pali Language and Literature (*in part*).
DAVIDS, T. W. RHYS, LL.D., PH.D., F.B.A.
Asoka; Devadatta; Pali Language and Literature (*in part*).
DAVIDSON, REV. SAMUEL, D.D. Canon (*in part*).
DAVIES, ALBERT EMIL. Investment Trusts (*in part*); Options.
DAVIES, SIR HENRY WALFORD, MUS.DOC., F.R.C.M., F.R.C.O.
Music, Teaching of (*in part*).
DAVIES, REV. JAMES, M.A. Hesiod (*in part*).
DAVIES, MRS. NOELLE, PH.D. Prussia (*in part*).
DAVIES, RALFE DAVIDSON. Bridging, Military.
DAVIES, RANDALL, F.S.A. Caricature (*in part*).
DAVIS, A. H. Acoustics of Buildings, The.
DAVIS, ARTHUR LLEWELLYN. Negligence.
DAVIS, CHANDLER, A.B., M.A.M., M.C. Railways (*in part*).
DAVIS, CHARLES, C.E. Highway.
DAVIS, DWIGHT FILLEY, A.B., LL.B.
Government Departments (*in part*).
DAVIS, HENRY WILLIAM CARLESS, C.B.E., M.A.
Becket, Thomas; Charles, The Great; Henry I.; John (king), etc.; Lanfranc (*in part*); Montfort, Simon de (*in part*); Stephen; etc.
DAVIS, JAMES JOHN, LL.D.
Government Departments (*in part*); Labour Law (*in part*).
DAVIS, JOHN M. Delaware, Lackawanna and Western Railroad Co.
DAVIS, J. S., M.A. Rural Education (*in part*).
DAVIS, OZORA STEARNS, A.M., PH.D., D.D., LL.D.
Congregationalism.
DAVIS, PARKE H., A.M. Football, Rugby (*in part*).
DAVIS, R. H. Divers and Diving Apparatus.
DAVIS, S. C. H. Motor Racing (*in part*).
DAVIS, WILLIAM, M.A. Hosiery; Lace (*in part*).
DAVIS, WILLIAM MORRIS, D.Sc., PH.D.
America (*in part*); North America (*in part*).
DAVISON, CHARLES, Sc.D., F.G.S. Earthquake.
DAVISON, GEOFFREY SPENCE. Motorcycles (*in part*).
DAWSON, GEORGE WALTER. Flower Painting.
DAWSON, H. M., PH.D., D.Sc.
Chemical Action; Chemistry (*in part*); Ions, Catalytic Action of.
DAWSON, WARREN R., F.R.S.E., F.S.A.
Embalming; Imhotep; Mummy.
DAWSON, WILLIAM HARBUTT. Pan-Germanism.
DEAN, RUTH. Landscape Architecture (*in part*).
DEBENHAM, F., O.B.E. Antarctic Regions.
DECKER, MAURICE H. Camping (*in part*).
DE CRUE, FRANCIS, D-ès-L. Geneva (*in part*).
DELAHAYE, LIEUTENANT-COLONEL J. V., D.S.O., M.C.
Woolwich (*in part*).
DELAISE, FRANCIS. United States of Europe, The.
DELEHAYE, REV. HIPPOLYTE, S.J.
Canonization; Helena, St.; Roch, St.; Vitus, St.
DELLER, EDWIN, LL.D. London University.
DELME-RADCLIFFE, LIEUTENANT-COLONEL EMILIUS C.
Falconry (*in part*).
DEL RE, ARUNDELL, O.B.E., M.A. Italian Literature (*in part*).
DE MILLE, CECIL BLOUNT. Motion Pictures (*in part*).
DEMING, OLIN L. Canning (*in part*).
DEMING, WILLIAM CHAPIN, A.M., LL.D. Civil Service (*in part*).
DENDY, FRED L., A.B.
Acting (*in part*); Inlaying; Schools of Art (*in part*); etc.
DENGEL, IGNAZ PHILIPP. Papacy (*in part*).
DENHAM, W. S., D.Sc., F.I.C.
Silk and Sericulture (*in part*); Silk Manufacture (*in part*).
DENMAN, RODERICK PETER GEORGE, M.A., A.M.I.E.E.
Gramophone (*in part*).
DENNY, EDWARD M. C., M.C., B.A. Bill of Exchange (*in part*).
DERBY, GEORGE S., A.B., M.D. Blindness, Causes of.
DERRICK, CALVIN. Reformatory School (*in part*).
DESART, COUNTESS DOWAGER OF. Forms of Address (*in part*).
DESJARDIN, A. U., M.D. Finsen, Niels Ryberg.
DESSEZ, ELIZABETH RICHET. Motion Pictures (*in part*).
DEVINE, HENRY, O.B.E., M.D., F.R.C.P. Psychosis (*in part*).
DEW, LIEUTENANT-COLONEL SIR ARMINE BRERETON,
K.C.I.E., C.S.I. Baluchistan (*in part*).
DEWING, ARTHUR, B.S. Art (*in part*).
DICE, AGNEW T. Reading Company.
DICKSEE, LAWRENCE ROBERT, M.COM., F.C.A.
Accountancy and Accountants (*in part*); Balance Sheet (*in part*); Bookkeeping; Liquidation (*in part*); etc.
DICKSON, HENRY NEWTON, M.A., D.Sc., F.R.G.S., F.R.S.E.
Mexico, Gulf of.
DICKSON, LEONARD E. Numbers, Theory of.
DILKE, LADY. Millet, Jean François (*in part*).
DILLON, DR. EMILE JOSEPH. Alphonso XIII.
DILLON, THOMAS, M.A., D.Sc. Gums.
DINES, WILLIAM HENRY, F.R.S. Kite-Flying (*in part*).
DINGLE, HERBERT, A.R.C.S., B.Sc., F.R.A.I. Sun.
DINSMOOR, WILLIAM BELL, S.B. Greek Architecture.
DINSMORE, WAYNE, M.S.A. Horsemanship and Riding (*in part*).
DIXON, G. C. Hughes, William Morris (*in part*).
DIXON, HAROLD BAILY, C.B.E., M.A., D.Sc., F.R.S.
Chemistry (*in part*).
DIXON, H. M. Rotation of Crops.
DIXON, ROLAND BURRAGE, PH.D.
Calchaquian; South America (*in part*); Tapuyan.
DIXON, WILLIAM HEPWORTH. Match (*in part*).
DOBB, MAURICE H., M.A. Russia (*in part*).
DOBSON, AUSTIN, LL.D. Hogarth, William (*in part*); Kauffmann, Angelica; Richardson, Samuel.
DODD, E. MERRICK, A.B., LL.B. Company Law (*in part*).
DODD, WALTER FAIRLEIGH, B.S., PH.D.
American Law (*in part*); United States of America (*in part*).
DODGSON, CAMPBELL, C.B.E., M.A. Dry Point (*in part*).
DODS, MARCUS. Pelagius (*in part*).
DOLE, FRANK F. Greyhound Racing (*in part*).
DOLLARD, JOHN, A.B. Chicago, University of.
DOLLMAN, CAPTAIN J. G.
Antelope; Chiroptera; Deer; Insectivora; Rodentia; Taxidermy; etc.
DOLPHIN, J. R., M.Sc., A.I.C., F.C.S. Pearl, Cultivated.
DONALD, SQUADRON LEADER D. GRAHAME, R.A.F., C.M.G., D.LITT., F.B.A. Air Co-operation (*in part*).
DONALD, SIR ROBERT, G.B.E., LL.D. Newspapers (*in part*).
DONALD, W. J., A.B., PH.D. Employees, Training of.
DONALDSON, B. R. Ford Motor Company.
DONDORE, DOROTHY ANNE, A.M., PH.D. Biography (*in part*).

DONNELLEY, CHARLES, LL.B. Northern Pacific Railway.
DONOVAN, WILLIAM J. Supreme Court of the United States, The.
DORIZZI, F. P. Pencil.
DOUGHTY, ARTHUR G., C.M.G., LITT.D., F.R.HIST.S., F.R.S.C.
Frontenac et Palluau; Meighen, Arthur.
DOUGLAS, CLAUDE GORDON, C.M.G., M.C., B.Sc., D.M., F.R.S.
Chemical Warfare (*in part*).
DOUGLAS, SIR ROBERT KENNAWAY.
Hsuan Tsang (*in part*); Jenghiz Khan; etc.
DOUGLAS, WILLIAM O., A.B., LL.B. Bankruptcy (*in part*).
DOUGLAS, WING COMMANDER W. SHOLTO, M.C., D.F.C., P.S.A. Air Combat.
DOUGLASS, MABEL S., A.B., LITT.D.
Women, Education of (*in part*).
DOUMENC, COMMANDANT J. E. A.
Motor Transport, Military (*in part*).
DOWIE, H. G. Kent's Cavern.
DOWNEY, JUNE ETTA, M.A., PH.D.
Handedness; Handwriting (*in part*).
DOWNS, LAWRENCE A., B.C.E. Illinois Central System.
DOWSON, ROBERT, M.INST.C.E. Turbine: Steam.
DRAUDT, COLONEL P. Red Cross (*in part*).
DREVER, JAMES, M.A., B.Sc., D.PHIL., F.R.S.E. Instinct in Man.
DREW, FREDERIC WILLIAM. Cigar; Cigarette (*in part*).
DREW, H. D. K., D.Sc., PH.D., F.I.C. Microanalysis, Chemical.
DREW, H. J. B. New Zealand (*in part*).
DRIBERG, J. H. Africa (*in part*); Age-grades; Angoni; Ganda; Hehe; Lango; etc.; Secret Societies (*in part*).
DRINKWATER, GEORGE CARR, M.C., M.A., R.B.A.
Rowing (*in part*).
DRIVER, G. R., M.A. Assyrian Language; Bible (*in part*); Hebrew Language; Jehovah; Semitic Languages.
DRIVER, SAMUEL ROLLES, HON.LITT.D., HON.D.D.
Bible (*in part*).
DROVER, ENGINEER-CAPTAIN F. J., R.N.
Marine Engineering; Rotor Ship.
DRUM, HUGH A., A.B. St. Mihiel (*in part*).
DRUMMOND, ALAN A., M.Sc., A.I.C. Casein; Resins
DRUMMOND, FRANCIS. Precedence (*in part*).
DRUMMOND, JOHN CECIL, D.Sc., F.I.C. Biochemistry.
DRUMMOND, REV. WILLIAM HAMILTON, D.D., LL.D.
Reunion, Church.
DRURY, F. E., M.SC.TECH., M.I.STRUCT.E., F.I.SAN.E.
Building Industry (*in part*); Foundations (*in part*); Structural Engineering (*in part*).
DRYSDALE, C. V., O.B.E., D.Sc., M.I.M.E., F.INST.P., F.R.S.E.
Instruments, Electrical.
DUCHESNE, LOUIS MARIE OLIVIER, D-ès-L.
Papacy (*in part*); Calixtus (*in part*); Gelasius (*in part*); Liberius (*in part*); Lucius (*in part*); Sixtus.
DUCK, FRANK J. G., B.S., CH.E.
Lithophone; Mercurochrome; Mining Engineer.
DUCKWORTH, WYNFRID LAURENCE HENRY, M.A., M.D., Sc.D.
Anthropometry.
DUDENEY, FRANK M. Exports (*in part*).
DUDENEY, HENRY ERNEST. Magic Square.
DUDLEY, A. M., B.S. in E.E. Motor, Electric.
DUFF, RT. HON. SIR MOUNTSTUART ELPHINSTONE GRANT, G.C.S.I., F.R.S. Oliphant, Laurence (*in part*).
DUFFY, FRANCIS P. Gibbons, James (Cardinal).
DUFLOU, GUILLAUME, PH.D. Flemish Language, The.
DUNCAN, F. MARTIN. Hair (*in part*).
DUNHILL, ALFRED. Pipe Smoking.
DUNIWAY, CLYDE AUGUSTUS, PH.D., LL.D. Colorado.
DUNKERLEY, G. D., B.Sc., A.R.C.S.
Educational Associations (*in part*).
DUNNAGE, JAMES A., F.S.S., A.M.INST.T.
Importing: In Practice (*in part*).
DUNSTAN, A. E., D.Sc., F.I.C., F.C.S.
Paraffin; Paraffin, Chemistry of; Shale Oil; etc.
DUNSTERVILLE, MAJOR KNIGHTLEY FLETCHER, D.S.O., R.A.
Range-Finders (*in part*).
DU PONT, LAMMOT, B.S. Du Pont de Nemours and Company, E. I.
DUPUIS, CHARLES EDWARD. Nile (*in part*).
DURANT, WILLIAM JAMES, M.A., PH.D.
Dewey, John; Santayana, George.
DURANTY, WALTER. Russia (*in part*).
DURRENBERGER, JOSEPH AUSTIN, M.A.
Confederate States of America.
DURST, ALAN L. Sculpture Technique (*in part*).
DU SEJOUR, J. DIONIS. Messageries Maritimes, Compagnie des.
DU TOIT, ALEXANDER L., D.Sc., F.G.S. Gondwanaland.
DUTT, ROMESH CHUNDER, C.I.E., F.R.S.L., M.R.A.S.
Vidyasagar, Iswar Chandra.
DVORACEK, JAN. Czechoslovakia (*in part*).
DYBOSKI, ROMAN, PH.D. Mickiewicz, Adam; Poland (*in part* Polish Literature; Poznan (*in part*).
DYMOND, J. R. Canada (*in part*).
DYSON, SIR FRANK WATSON, K.B.E. Parallax.
EARNEST, JOHN P., A.M., LL.M.
Arson (*in part*); Inebriety, Law of (*in part*).
EARNSHAW, FRANK L. Game Reserves (*in part*).
EASTMAN, GEORGE. Photography (*in part*).
EATON, F. A. Academy, Royal (*in part*).
ECCLES, WILLIAM, D.Sc., F.R.S. Wireless Telegraphy (*in part*).
ECKBERG, ADRIAN. Gilding (*in part*).
ECKEL, EDWIN CLARENCE, B.S., C.E.
Physical Resources (*in part*).
ECKERSLEY, CAPTAIN P. P., M.I.E.E. Broadcasting (*in part*).
ECKHARDT, KARL AUGUST.
Germanic Laws, Early (*in part*); Salic Law (*in part*).
EDDINGTON, ARTHUR STANLEY, D.Sc., F.R.S.
Astronomy (*in part*); Star; Telescope (*in part*); etc.
EDGELL, CAPTAIN J. A., R.N. Chart; Sounding.
EDGINGTON, CHARLES, M.A. Ice Hockey (*in part*).
EDMONDS, BRIGADIER-GENERAL SIR J. E., C.B., C.M.G F.R.G.S. Battles of Loos; of the Marne; Ypres (1914 and 1915) World War (bibliography).
EDMUNDSON, REV. GEORGE, M.A., D.LITT., F.R.HIST.S., F.R.G.S Brabant; Flanders (*in part*); Holland (*in part*); Oldenbarneveld (*in part*); Orange, House of; etc.
EDWARDS, ALBAR M., M.A., PH.D. Domestic Service (*in part*).
EDWARDS, CHARLES ALFRED, D.Sc.
Copper (*in part*); Copper, Output and Manufacture.
EDWARDS, LIEUTENANT-COLONEL IVO ARTHYR EXLEY C.M.G. Aerodrome (*in part*); Air Routes.
EDWARDS, JUNIUS DAVID, B.S. Physical Resources (*in part*).
EDWARDS, RALPH, B.A. Interior Decoration (*in part*).
EDWARDS, MAJOR T. J. Colours, Military; Numismatics (*in part*) Officers (*in part*); Uniforms (*in part*); etc.
EGBERT, J. C., PH.D., LL.D. University Extension (*in part*).
EGGELING, H. JULIUS, PH.D.
Sanskrit Language and Literature (*in part*).
EHLERS, HERR. Norddeutscher Lloyd Steamship Company.
EICHELBERGER, WILLIAM S., A.B., PH.D. Newcomb, Simon.
EINSTEIN, ALBERT, PH.D. Space-Time.
EISENHART, L. P.
Differential Geometry; Affine Geometry; Riemannian Geometry.
EISENMANN, LOUIS, D-ès-L. Bohemia (*in part*).
EKBLAW, W. ELMER, A.M., PH.D. Dunes; Mammoth Cave; Sierra Nevada Mountains; United States of America (*in part*); Wyandotte Cave; Yellowstone National Park; Yosemite; etc.
ELIOT, SIR CHARLES NORTON EDGCUMBE, P.C., G.C.M.G., C.B., M.A. Asia (*in part*); Japan (*in part*); etc.
ELIOT, CHARLES WILLIAM. Gray, Asa.
ELLES, MISS G. L., D.Sc. Ordovician System; Palaeozoic Era.
ELLINGHAM, H. J. T., A.R.C.S., B.Sc., A.M.I.CHEM.E.
Electrochemistry.
ELLIOT, E. J. International Trade Associations and Congresses; Trade Organization (*in part*).
ELLIOTT, GEORGE B. Atlantic Coast Line Railroad Co.
ELLIS, B. A. Chemistry (*in part*).
ELLIS, B. ELDRED. Glove Manufacture.
ELLIS, C. D., PH.D. Photoelectricity.
ELLIS, FRANKLIN COURTNEY, A.B. Eastman Kodak Co.
ELLIS, G. E. Railways (*in part*).
ELLIS, (ROBERT) GEOFFREY. Peerage.
ELLYAT, ARTHUR SIDNEY, O.B.E. Sugar (*in part*).

ELMER, ROBERT P. Archery.
ELMSLIE, REV. WILLIAM ALEXANDER LESLIE, M.A., B.D., Hon.D.D. Prophet.
ELSWORTH, REV. JOHN. Methodism (*in part*).
ELTON, CHARLES S. Ecology, Animal.
ELTON, OLIVER, Hon.D.Litt., F.B.A. English Literature (*in part*).
ELY, RICHARD THEODORE, Ph.D., LL.D.
Land Tenure, Economic and Agrarian Aspects (*in part*).
EMERSON, HAVEN, A.M., M.D. Public Health (*in part*).
ENFIELD, RALPH. Agricultural Credit (*in part*); Agricultural Co-operation (*in part*); Agricultural Insurance.
ENGERRAND, GEORGE C., B.S. Mexico (*in part*).
ENGLEDOW, F. L., M.A. Plant Breeding.
ENNIS, GEORGE PEARSE. Water-Color Painting (*in part*).
EPPS, GEORGE S. W., C.B.E., B.A., F.I.A. Superannuation.
ERNST, MORRIS L., A.B., LL.B. Civil Liberty (*in part*).
ERVINE, ST. JOHN. Shaw, George Bernard.
ESDAILE, ARUNDELL, F.S.A. Libraries (*in part*).
ESHER, THE RT. HON. VISCOUNT, G.C.B., G.C.V.O., LL.D. Cabinet, The (*in part*); Edward VII. (*in part*).
ESMEIN, JEAN PAUL HIPPOLYTE EMMANUEL ADHEMAR. Code Napoléon (*in part*); French Law and Institutions (*in part*); Lettres de Cachet; Parlement; etc.
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EVANS, H. W. L., O.B.E. Mint (*in part*).
EVANS, JOAN, B.Litt. Jewellery (*in part*).
EVANS, J. W., C.B.E., D.Sc., LL.B., F.G.S., M.I.M.E., F.R.S. Devonian System.
EVANS, OWEN D., A.M. Schools, Evening.
EVE, ARTHUR STEWART, C.B.E., M.A., D.Sc., F.R.S. Prospecting.
EVE, HON. SIR HARRY TRELAWNEY (Mr. Justice Eve), M.A. Company Law (*in part*).
EVELYN, MARY, M.C.A. Sausages (*in part*).
EVERARD, W. J., M.I.N.E. Barges and Canal Craft.
EVERITT, CHARLES, M.A., F.C.S., F.G.S., F.R.A.S. Constellation (*in part*).
EVERITT, GEORGE B. Montgomery Ward and Co., Inc.
EWAN, T., M.Sc., Ph.D., F.I.C. Cyanide.
EWING, SIR (JAMES) ALFRED, K.C.B., LL.D., M.Inst.C.E., F.R.S. Air Engine; Siemens, Sir William; Steam; Steam Engine.
EYRE, JOHN WILLIAM HENRY, M.D., M.S., D.P.H., F.R.S.E. Serum Therapy; Vaccine Therapy.
FAIRBAIRN, JOHN SHIELDS, M.B., B.Ch., F.R.C.S., F.R.C.P. Menopause; Obstetrics; Puerperal Fever.
FAIRBANK, HERBERT SINCLAIR, C.E. Roads and Streets (*in part*).
FAIRCHILD, HENRY PRATT, Ph.D.
Americanization; Colour and Race (*in part*).
FAIRWEATHER, REV. WILLIAM, M.A., D.D.
Maccabees; Maccabees, Books of.
FALLOW, THOMAS MACALL, M.A., F.S.A.
Coronation; Crown and Coronet.
FANNING, LEONARD W.
Gasolene; Petroleum; Physical Resources (*in part*); etc.
FARBMAN, MICHAEL. Russia (*in part*).
FARIS, JOHN THOMSON, A.B., D.D.
Arlington National Cemetery.
FARMER, R. C., O.B.E., D.Sc., Ph.D., F.I.C. Filtration.
FARNELL, LEWIS RICHARD, M.A., Litt.D., D.C.L., F.R.A.S., F.B.A. Greek Religion (*in part*); Mystery (*in part*).
FARRELL, JAMES A.
Gary, Elbert Henry; United States Steel Corporation.
FARREN, WILLIAM SCOTT, M.B.E., M.A.
Aeroplane; Fuselage; Helicopter; Ornithopter.
FARRINGTON, WALLACE R., B.S. Pan-Pacific Union, The.
FAUNCE, WILLIAM H. P., A.M., D.D., LL.D.
Brown University.
FAWCETT, DAME MILLICENT G., G.B.E., J.P., Hon.LL.D.
Women's Suffrage (*in part*).
FAWKES, REV. ALFRED, M.A. Establishment (*in part*).
FAY, BERNARD, M.A., D-ès-L. Franklin, Benjamin.
FAY, C. R., M.A., D.Sc. Canada (*in part*).
FAYLE, CHARLES ERNEST.
Blockade, Ministry of; Shipping, History of.
FELL, SIR ARTHUR, M.A. Channel Tunnel.
FELLERS, LIEUTENANT B. F. West Point.
FELLHEIMER, ALFRED, B.S. Railways (*in part*).
FELLOWS, GEORGE EMORY, L.H.D., Ph.D., LL.D. Utah.
FENNEMAN, N. M., A.B., Ph.D.
United States of America (*in part*).
FERGUSON, C. L. Parliamentary Procedure.
FERGUSON, W. S., A.M., Ph.D., Litt.D., LL.D. Greek Law.
FERRERO, LIEUTENANT-COLONEL A. Mountain Warfare (*part*).
FERRIER, J. WALTER. Heine, Heinrich (*in part*).
FERRISS, HUGH. Rendering, Architectural.
FEUCHTWANGER, LION. Novel, Modern Developments in the.
FEW, WILLIAM P., Ph.D., LL.D. Duke University.
FFOULKES, CHARLES JOHN, O.B.E., B.Litt., F.S.A.
Arms and Armour.
FFOULKES, CONSTANCE JOCELYN. Morelli, Giovanni (*in part*).
FIDLER, A. T. Dunlop Rubber Company, Ltd.
FILMAN, JACK. Ice Hockey (*in part*).
FILON, PIERRE MARIE AUGUSTE. Drama (*in part*).
FINDLAY, SIR JOHN RITCHIE, K.B.E., F.R.S.E., LL.D., M.A.
De Quincey, Thomas.
FINER, HERMAN, D.Sc.
Electoral Systems; Proportional Representation.
FINK, COLIN G., D.Phil., M.A. Bronze and Brass Ornamental Work (*in part*); Sculpture Technique (*in part*).
FIRTH, JOHN B. Burnham, Edward Levy Lawson.
FIRTH, R., M.A., Ph.D. Economics, Primitive; Labour, Primitive; Maori; Property, Primitive; Trade, Primitive; Wealth, Primitive; etc.
FISCHER, C. E. C. Asia (*in part*); India (*in part*).
FISCHER, EUGEN, D.Phil. Holstein, Friedrich von.
FISH, CARL RUSSELL, M.A., Ph.D. Wisconsin.
FISHBEIN, MORRIS, B.Sc., M.D. Quackery (*in part*).
FISHENDEN, MARGARET, D.Sc., F.Inst.P.
Smoke and Smoke Prevention (*in part*).
FISHER, A. Enamel (*in part*).
FISHER, IRVING, A.B., Ph.D. Dollar Stabilization.
FISHER, R. A., D.Sc. Biometry; Twins and Twinning.
FISHER, RUSSELL T. Cotton and the Cotton Industry (*in part*); Sailcloth and Sailmaking (*in part*).
FISKE, JOHN.
Grant, Ulysses Simpson (*in part*); Parkman, Francis.
FITCH, R. LOUISE, M.A. Coeducation; Sororities.
FITE, WILLIAM BENJAMIN. Differential Equations.
FITZMAURICE, THE RT. HON. LORD EDMUND, M.A., Litt.D., F.B.A. Commons (*in part*).
FITZMAURICE-KELLY, JAMES, Litt.D., F.R.Hist.S.
Spanish Language and Literature (*part*); Picaresque Novel (*part*); Cervantes and other Spanish biographies.
FLACK, MARTIN, C.B.E., M.A., M.B. Aviation, Medical Aspects of.
FLEMING, ALEXANDER, M.B., B.Sc., F.R.C.S.
Antiseptics and Asepsis (*in part*).
FLEMING, SIR JOHN AMBROSE, M.A., D.Sc., F.R.S. Electrical Machine (*in part*); Electricity Supply, Technical Aspects (*in part*).
FLEMING, MISS R. M. Russia (*in part*); Siberian Area (*in part*); Tajik Republic; Tatar Republic; Ukraine (*in part*); etc.
FLEMING, WALTER LYNWOOD, A.M., Ph.D.
Lynch Law; Nullification; Secession.
FLETCHER, FRED. Angling (*in part*).
FLETT, SIR JOHN SMITH, K.B.E., M.A., D.Sc., LL.D., F.R.S.
Andesite; Gabbro; Lamprophyres; Marble (*in part*); Neck; Nepheline-Syenite; Porphyry; Rhyolite; etc.
FLEURE, HERBERT JOHN, D.Sc.
Asia (*part*); Europe (*part*); Germany (*part*); Tibet (*part*); etc.
FLEXNER, SIMON, M.D., LL.D.
Rockefeller Benefactions (*in part*); Spinal Meningitis.
FLINK, CARL. Radiator (*in part*).
FLINN, ALFRED DOUGLAS, B.S., D.A.S. Engineer, Professional.
FLOREY, H. W. Lymph.
FLUGEL, J. C., B.A. Feeling, Psychology of.
FLUX, ALFRED WILLIAM, C.B., M.A.
Production, Census of (*in part*); Statistics.
FOCH, FERDINAND, O.M. Army (*in part*).
FOEHRINGER, ANNA. Golitzin, Boris Borisovich.

FOERSTER, LIEUTENANT COLONEL WOLFGANG.
Hindenburg; Ludendorff (*in part*).
FOLIGNO, CESARE, M.A.
Italian Language, Modern; Italian Literature (*in part*).
FOLKS, HOMER, LL.D. Poor Law (*in part*).
FOLTIN, EDGAR M. Prison (*in part*).
FOOTE, ARTHUR DE WINT. Pneumatic Power Transmission.
FORBES, ALEXANDER, A.M., M.D. All-or-None Law.
FORD, LIEUTENANT-COLONEL C. W., R.A.
Ammunition (*in part*).
FORD, HENRY. Mass Production.
FORD, WALTER ARMITAGE JUSTICE, B.A.
Song (*in part*); Wolf, Hugo.
FOREMAN, LAUREN, PH.B. Southern Railway System.
FORREST, GEORGE TOPHAM, F.R.S.E., F.R.I.B.A., F.G.S.
School Architecture (*in part*).
FORSDYKE, E. J., M.A., F.S.A. Bronze and Brass Ornamental Work (*in part*); Crete (*in part*); Potteries and Porcelains (*in part*); etc.
FORTER, NORMAN L.
Bessarabia (*in part*); Dobruja (*in part*); Rumania (*in part*).
FORTESCUE, HON. SIR JOHN WILLIAM, K.C.V.O., LITT.D.
Peninsular War.
FORTESCUE-BRICKDALE, SIR CHARLES, F.R.G.S.
Land Titles (*in part*).
FORTIER, SAMUEL, M.E., D.Sc. Irrigation (*in part*).
FORWARD, ALEXANDER. Gas Manufacture (*in part*).
FOSDICK, RAYMOND BLAINE, M.A., LL.D.
New York City; Police (*in part*).
FOSTER, C. C. Singer Manufacturing Company, The.
FOSTER, JOHN B. Baseball (*in part*); Billiards (*in part*).
FOSTER, JOHN WATSON, A.M., LL.D. Harrison, Benjamin.
FOSTER, ROBERT FREDERICK. Poker.
FOTHERINGHAM, J. K., M.A., D.LITT. Eclipses, Ancient.
FOWLER, ALFRED, D. Sc., F.R.S. Spectroscopy.
FOWLER, W. WARDE, M.A. Fortuna; Mars.
FOX, LIEUTENANT-COLONEL CHARLES JAMES, F.R.G.S.
Salvage Corps (*in part*).
FOX, CHARLES J. J., PH.D., D.Sc., F.I.C.
Cellulose; Paper Manufacture; Paper Materials; Silk, Artificial.
FOX, CYRIL S. Bauxite (*in part*); Laterite.
FOX, EVELYN. Mental Deficiency (*in part*).
FOX, JAMES J., O.B.E., D.Sc., F.I.C.
Alcohol (*in part*); Salt (*in part*).
FOX, THOMAS WILLIAM. Spinning; Weaving (*in part*).
FOX-STRANGWAYS, A. H. Indian Music.
FRAME, JAMES EVERETT, A.M. Colossians, Epistle to the.
FRANCIS, A. G., B.Sc., F.I.C. Salt (*in part*).
FRANCIS, F., D.Sc., PH.D., F.I.C. Chemistry (*in part*).
FRANCIS, PERCY A., M.B.E.
Poultry and Poultry Farming (*in part*).
FRANK, HELENA. Yiddish Language and Literature (*in part*).
FRANK, TENNEY, PH.D. Italy (*in part*); Rome (*in part*).
FRANKLIN, ELLIS L., J.P., F.S.S., F.R.G.S. Arbitrage (*in part*).
FRANKLIN, PHILIP A. S.
International Mercantile Marine Company.
FRANTZ, HENRI.
Manet, Edouard; Puvis de Chavannes, Pierre Cécile (*in part*).
FRANZ, S. I., PH.D., LL.D.
Subnormal and Feebleminded, Education of.
FRASER, CAPTAIN IAN. Blindness (*in part*).
FRASER, JAMES E. Sculpture (*in part*).
FRASER, JOHN, M.A., LL.D. Scottish Literature (*in part*).
FRASER, J. S., M.B. Deaf Mutism, Medical Aspects of.
FRAZER, SIR JAMES GEORGE, O.M., F.R.S.
Praeneste (*in part*).
FREAR, WALTER FRANCIS, A.B., LL.D. Hawaii; Honolulu.
FREDERICK, J. GEORGE. Business Codes.
FREE, EDWARD ELWAY, A.B., PH.D.
Inventions; Noise and Its Control.
FREEMAN, DOUGLAS SOUTHALL, PH.D., LL.D.
Davis, Jefferson.
FREEMAN, EDWARD AUGUSTUS, LL.D. Goths (*in part*); Normans (*in part*); Sicily (*in part*); Syracuse (*in part*).
FREEMAN, FRANK N., M.A., PH.D. Visual Education.
FREEMAN, WILLIAM GEORGE, B.Sc., A.R.C.S. Coffee (*in part*).
FREESE, JOHN HENRY, M.A.
Hesiod (*in part*); Julian (*in part*); Leo VI.
FRENCH, NORMAN. Hardware (*in part*).
FRENCH, THOMAS E., M.A., D.Sc. Drawing Engineering.
FRERE, RT. REV. WALTER HOWARD. Plainsong.
FREUD, SIGMUND. Psychoanalysis: Freudian School.
FRIEDMAN, WILLIAM F., B.S. Codes and Ciphers.
FRIES, MAJOR-GENERAL AMOS ALFRED.
Chemical Warfare (*in part*).
FRIESEN, OTTO v. Runes.
FRITSCH, FELIX EUGEN, D.Sc., PH.D.
Algae, Bacillariales; Protophyta.
FRY, ROGER. Cézanne, Paul.
FUCHS, H. Disconto-Gesellschaft, Berlin.
FULLER, COLONEL JOHN FREDERICK CHARLES, C.B.E., D.S.O.
Cavalry; Tactical Formations; Tactics; etc.; Arras, Battle of; Neuve Chapelle, Battle of; etc.; Diadochi; Gaugamela; Jemappes; Macedonian Army; etc.
FURST, CLYDE, M.A., PH.D.
Pensions: The United States (*in part*); Philanthropy (*in part*).
FYFE, DAVID THEODORE, M.A., F.R.I.B.A.
Egyptian Architecture; Western Asiatic Architecture.
GABRIEL, R. H., M.A., PH.D. Long Island (*in part*).
GADD, C. J., M.A. Babylonian Law; Sumerian Language.
GAGER, C. STUART, A.B., PH.D., Sc.D.
Botanic Gardens (*in part*).
GAHAN, FRANK. Advertising (*in part*); Damages; Game Laws (*in part*); Gaming and Wagering (*in part*).
GAIRDNER, JAMES, C.B., LL.D.
Mary I.; Talbot (Family) (*in part*).
GALE, R. C., F.I.C. Explosives (*in part*).
GALLOTTI, JEAN. Wood-Carving (*in part*).
GALLOWAY, GEORGE, M.A., D.PHIL., D.D. Religion (*in part*).
GALTREY, SIDNEY, O.B.E., F.J.I.
Horse-Racing and Breeding (*in part*).
GAMBLE, W., F.R.P.S. Music Printing.
GANOE, WILLIAM A., A.M. Buena Vista; Chapultepec; Monterrey, Palo Alto; etc.; United States of America (*in part*).
GARBER, DANIEL. Landscape Painting (*in part*).
GARCKE, E., M.INST.E.E.
Electricity Supply: Commercial Aspects; Tramway (*in part*).
GARDINER, ALFRED G. Oxford and Asquith, Lord.
GARDINER, LINDA. Birds, Protection of.
GARDINER, SAMUEL RAWSON.
George I. (*in part*); George II.; George IV. (*in part*).
GARDNER, ERNEST ARTHUR, LITT.D., T.C.D.
Clazomenae; Inscriptions; Parthenon (*in part*); Propylaea.
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GARDNER, MONICA M. Drama (*in part*).
GARDNER, PERCY, LITT.D., LL.D., D.C.L., F.S.A., F.B.A.
Demetrius; Greek Art; Lysippus.
GARDNER-SMITH, REV. P., B.D.
Peter, First Epistle of; Peter, Second Epistle of; etc.
GARNER, JAMES B., M.Sc., PH.D. Natural Gas.
GARNER, W. W., A.B., PH.D. Photoperiodism (*in part*).
GARNETT, RICHARD, C.B., LL.D. Anthology (*in part*); Satire (*in part*); Irving; Peacock, Thomas Love (*in part*); etc.
GARNETT, W., HON.D.C.L. Energy (*in part*).
GARNETT, W., B.Sc. Migration (*in part*).
GARRETT, HENRY E., M.A., PH.D. Differential Psychology.
GARROD, HEATHCOTE WILLIAM, C.B.E., M.A., F.R.L.S.
Wordsworth, William.
GARSTANG, JOHN, M.A., D.Sc., B.LITT., F.S.A.
Palestine (*in part*).
GARSTANG, WALTER, M.A., D.Sc., F.L.S.
Amphioxus; Pisciculture (*in part*); Tunicata.
GARSTIN, SIR WILLIAM EDMUND, G.C.M.G. Nile (*in part*).
GARVIE, REV. ALFRED ERNEST, M.A., D.D.
Devil; Eschatology, Immortality; Inspiration; Miracle; etc.
GARVIN, JAMES LOUIS, LITT.D.
Capitalism; English Speaking World; War Guilt (*in part*).
GASELEE, STEPHEN, C.B.E., M.A., F.S.A.
Foreign Office; Latin Literature (*in part*).

GASTER, LEON. Illuminating Engineering.
GASTER, MOSES, PH.D.
Bassarab; Gypsies (*in part*); Hasdeu; Sturdza; Vacarescu.
GATER, GENERAL GEORGE HENRY, C.M.G., D.S.O.
Polytechnics; Technical Education (*in part*).
GATLEY, CLEMENT, M.A., D.C.L., LL.D.
Guarantee (*in part*); Libel and Slander.
GAY, CARL WARREN, D.V.M., B.S.A. Cattle-Breeding (*in part*).
GAY, EDWIN FRANCIS, PH.D., LL.D. Hanseatic League.
GEDDES, NORMAN BEL. Theatre (*in part*).
GEDYE, NICHOLAS G., O.B.E., B.Sc., M.INST.C.E.
Breakwater; Canals and Canalised Rivers; Coast Protection and Land Reclamation (*in part*); Docks (*in part*); River and River Engineering (*in part*); etc.
GEIKIE, SIR ARCHIBALD, F.R.S.
Hutton, James (*in part*); Vesuvius (*in part*).
GELDER, H. E. VAN.
Glass (*in part*); Potteries and Porcelains (*in part*).
GELDNER, KARL FRIEDRICH. Zend-Avesta (*in part*).
GEORGE, WILLIAM R. George Junior Republic, The.
GERAUD, ANDRE. Delcassé, Théophile.
GERHARDT, PAUL L., L.B. Port Operation (*in part*).
GESELL, ARNOLD, PH.D., M.D. Child Psychology.
GEYL, PIETER, LITT.D. Holland (*in part*); William (The Silent).
GIBB, H. A. R. Arabic Literature (*in part*).
GIBBONS, CEDRIC. Motion Pictures (*in part*).
GIBSON, ARNOLD HARTLEY, D.Sc., M.INST.C.E., M.I.MECH.E.
Hydraulic Machinery; Hydraulic Power Transmission; Hydraulics; Pump; Tidal Power; Turbine: Water; etc.
GIDE, CHARLES. Economic Man; Land Nationalization.
GIFFEN, SIR ROBERT, K.C.B., F.R.S.
Bagehot, Walter; Balance of Trade (*in part*).
GIFFORD, R. H. Sausages (*in part*).
GIFFORD, WALTER SHERMAN, A.B., LL.D.
American Telephone and Telegraph Company; Telephone.
GILBERTSON, MAJOR GEORGE WATERS. Balochi Language.
GILES, GEORGE W., F.R.H.S. Allotment.
GILES, PETER, M.A., LL.D., LITT.D., F.B.A. Indo-Europeans.
GILL, SIR DAVID, K.C.B., LL.D., F.R.A.S., D.Sc., F.R.S.
Telescope (*in part*).
GILL, ERIC. Stone Carving.
GINSBERG, J., M.A. Euler Numbers; Stirling Numbers.
GINSBERG, M., M.A., D.LITT. Social Philosophy.
GIRARD, SIR JOSEPH.
Nord de France, Compagnie des Chemins de Fer du.
GIRAUD, JEAN. Stendhal.
GISH, LILLIAN. Motion Pictures (*in part*).
GITTINGER, ROY, PH.D. Oklahoma.
GLADSTONE, REGINALD JOHN, D.P.H., F.R.C.S., L.R.C.P.
Brain (*in part*); Embryo (*in part*).
GLASGOW, GEORGE. Beneš; Locarno, Pact of; Masaryk.
GLAZEBROOK, A. J. Canada (*in part*).
GLAZEBROOK, SIR RICHARD TETLEY, K.C.B., D.Sc., F.R.S.
Aeronautics; Newton, Sir Isaac; Research, Industrial (*in part*).
GLEASER, MARTIN G., PH.D. Public Utilities.
GLEICHEN, MAJOR-GENERAL LORD EDWARD, K.C.V.O., C.M.G., D.S.O. Abyssinia (*in part*).
GLOAG, W. M., K.C., B.A., LL.D. Scots Law.
GLOVER, ARNOLD, M.A., LL.B. Layard, Sir Austen Henry (*in part*).
GODDARD, HENRY HERBERT, A.M., PH.D.
Feeblemindedness; Mental Deficiency (*in part*).
GODFREY, HUGH, M.A. Dial and Dialling (*in part*).
GOEJE, MICHAEL JAN DE. Arabic Literature (*in part*).
GOEPEL, A. Friedrich Krupp Aktiengesellschaft.
GOETHALS, GEORGE WASHINGTON, LL.D., D.S.M.
Panama Canal (*in part*).
GOETZ, HERMANN, PH.D.
Mohammedan Architecture; Mohammedan Art.
GOFTON, ARTHUR, F.R.C.V.S. Abattoir.
GOITEIN, HUGH. Jurisprudence; Jurisprudence, Comparative (*in part*); Sale of Goods (*in part*).
GOLDIE, SIR GEORGE TAUBMAN, P.C., K.C.M.G., HON.D.C.L., F.R.S. Brazza, Pierre Paul François.
GOLDING, C. E., LL.D., F.S.S. Reinsurance (*in part*).
GOLDSMID, MAJOR-GENERAL SIR FREDERICK JOHN. Timûr.
GOLDSMITH, ALFRED N., B.S., PH.D. Sound Motion Pictures.
GOLDSTONE, F. W. Educational Associations (*in part*).
GOLLANCZ, SIR ISRAEL, LITT.D., F.B.A. Pearl, The.
GOMME, LADY. Children's Games (*in part*).
GOOD, WILLIAM A., B.S. Canoe (*in part*).
GOODE, SIR WILLIAM A. M., K.B.E.
Bethlen, Count; Hungary (*in part*).
GOODRICH, EDWIN STEPHEN, M.A., F.R.S.
Evolution, Organic (*in part*).
GORDON, REV. ALEXANDER, M.A.
Blandrata, Giorgio; Buckholdt, Johann; Bullinger, Heinrich; Knipperdollinck, Bernt; Socinus (*in part*); etc.
GORELL, LORD, C.B.E., M.C., M.A.
Teachers Registration Council.
GORMAN, J. E. Chicago, Rock Island and Pacific Railroad Company.
GOSSE, SIR EDMUND, M.A., C.B., LL.D., HON.LITT.D.
Biography (*in part*); Novel (*in part*); Verse (*in part*); etc.; Swedish Language and Literature (*in part*); and biographies of English and foreign poets and writers.
GOSSE, PHILIP, M.D., M.R.C.S., L.R.C.P. Pirates and Piracy (*part*).
GOUGH, ALFRED BRADLEY, M.A., PH.D.
Swabian League; Westphalia, Treaty of.
GOUGH, HERBERT JOHN. Fatigue of Metals; Heliotherapy.
GOULD, F. A., M.A. Balance; Barometer.
GOULD, GERALD, B.A. Wells, Herbert George.
GOULD, LIEUTENANT COMMANDER R. T., R.N. Chronometer.
GOULDEN, C. B., M.A., M.CH., M.D., F.R.C.S.
Vision or Sight (*in part*).
GOULINAT, JEAN GABRIEL. Oil Painting, Technique of; Paintings, Restoration and Preservation of (*in part*).
GOURLEY, H. J. F., M.ENG., M.INST.C.E., F.G.S. Water Supply.
GRACE, E. G. Bethlehem Steel Corporation.
GRACE, HARVEY. Festivals, Musical.
GRACEY, D. A., F.I.C. Tobacco.
GRAFF-BAKER, W. S., B.Sc., A.C.G.I., M.INST.T. Escalators.
GRAFLEY, CHARLES AND DOROTHY. Sculpture (*in part*).
GRAHAM, JOHN, L.T.S.C. Tonic Sol-Fa.
GRAHAM, WILLIAM, P.C., M.A. General Strike (*in part*).
GRANT, NEIL FORBES, C.B.E., M.A. Portugal (*in part*).
GRANT, LIEUTENANT-COLONEL R. C., O.B.E. Toc H.
GRANT, WILLIAM LAWSON, M.A., LL.D.
Brown, George; Galt, Sir Alexander; Mackenzie, William Lyon.
GRAVES, PHILIP. Druses (*in part*); Lebanon (*in part*); Mesopotamia (*in part*); Palestine (*in part*).
GRAY, CARL R. Union Pacific Railroad System.
GRAY, EGERTON C. Fermentation.
GRAY, GEORGE BUCHANAN, M.A., D.D., D.LITT. Bible (*in part*).
GRAY, J. Fertilization.
GREAVES, J. L. Cardboard.
GREAVES, W. M. H., M.A., F.R.S. Photometry (*in part*).
GREEN, ARTHUR GEORGE, M.Sc., F.I.C., F.R.S. Dyes, Synthetic.
GREEN, MARGARET M., M.A.
Education (*in part*); Infant Schools; etc.
GREEN, WILLIAM. American Federation of Labor.
GREENE, NATHAN, A.B., LL.B., S.J.D. Injunction (*in part*).
GREENISH, HENRY GEORGE, F.I.C., F.L.S. Pharmacy (*in part*).
GREENLEAF, WALTER J., A.M., PH.D.
Land-Grant Colleges and Universities.
GREENWOOD, ARTHUR.
Trades Union Congress; Trade Unions (*in part*).
GREENWOOD, MAJOR, F.R.C.P., F.R.S. Epidemiology (*in part*).
GREGORY, JOHN WALTER, D.Sc., F.R.S.
Africa (*in part*); Colour and Race (*in part*).
GREGORY, MONTGOMERY. Negro, The American (*in part*).
GREGORY, THEODOR E., D.Sc. Bank Charter Act; Central Bank; Great Britain (*in part*); Inflation and Deflation; etc.
GREGORY, WILLIAM BENJAMIN, M.E., M.M.E.
New Orleans (*in part*).
GREGORY, WILLIAM KING, A.M., PH.D.
Ancylopoda; Mammalia; Marsupialia; Monotremata; Perissodactyla; Primates (*in part*); Ungulata.
GRENFELL, SIR WILFRED, K.C.M.G., M.D., F.R.C.S., L.R.C.P., LL.D. Labrador; Newfoundland (*in part*).

GRENSTED, REV. LAURENCE WILLIAM, B.D. Atonement.
GRETTON, R. H., M.A. English History (*in part*).
GREVE, CHARLES THEODORE, A.B., LL.B. Cincinnati.
GREY, FRANCIS TEMPLE, M.A. Capital Punishment; Extradition (*in part*); Insanity in Law (*in part*); Medical Jurisprudence (*in part*).
GRIESEMER, DOUGLAS. Red Cross (*in part*).
GRIEVE, REV. ALEXANDER JAMES, M.A., D.D.
Catechism; Preaching; Primitive Methodists (*in part*); Septuagint; Swedenborg, Emanuel (*in part*); etc.
GRIFFIN, H. W. Shipping, War Losses of.
GRIFFIN, W. LASHFORD. Chain Manufacture (*in part*).
GRIFFISS, BARTOW, A.B., PH.D. Instalment Selling (*in part*).
GRIFFITH, FRANCIS LLEWELLYN, M.A., PH.D., F.S.A., F.B.A. Demotic Language and Writing; Egypt (*in part*); Egyptian Language; Hieroglyphs; Meroitic Language and Writing; Nubian Language and Writing; etc.
GRIGGS, LAURA T., A.B. Valley of Ten Thousand Smokes.
GRIMSHAW, HAROLD ATHELING, M.Sc.
Hours of Labour (*in part*).
GRIMWOOD, HERBERT H. Wood-Carving (*in part*).
GROGAN, ELINOR F. B. (LADY GROGAN). Bulgaria (*in part*).
GROOM, PERCY, M.A., D.Sc., F.R.S. Dry Rot; Timber; Wood.
GROSS, CHARLES, A.M., PH.D., LL.D. Guilds.
GROSSMAN, MOSES H. Industrial Relations (*in part*).
GROSVENOR, GILBERT, A.M., LITT.D., LL.D.
National Geographic Society.
GRUFFYDD, WILLIAM JOHN, M.A.
Welsh Language and Literature.
GRUGER, F. R. Illustration.
GRUNDY, GEORGE BEARDOE, M.A., D.LITT.
Graeco-Persian Wars; Greece (*in part*).
GRUNTZEL, JOSEPH, PH.D. Commercial Treaties (*in part*).
GRUSON, M. Est de France, Compagnie des Chemins de Fer.
GUILDAY, PETER. Roman Catholic Church (*in part*).
GUILLAUME, M.
Lyautey, General; Mangin, General; Nivelle, General.
GUILLEBAUD, CLAUDE W.
Luxury; Luxury Taxes (*in part*); Malthus; Marshall, Alfred.
GULICK, LUTHER. Mayor (*in part*).
GULL, E. M., M.A. Wei-Hai-Wei.
GUMMER, C. F., M.A., PH.D. Triangle.
GUNTHER, R. T., M.A., HON.LL.D., F.R.G.S., F.L.S. Armilla or Armillary Sphere; Astrolabe; Dial and Dialling (*in part*).
GUTHRIE, E. S., B.S.A., M.S., PH.D. Butter (*in part*).
GUTTERIDGE, G. H., M.A.
British Honduras (*in part*); Bahamas (*in part*); Whig and Tory.
GWYNN, DENIS. Irish Free State (*in part*).
GWYNN, STEPHEN LUCIUS. Collins, Michael; Cosgrave, W. T.; Griffith, Arthur; Healy, T. M.; Irish Free State (*in part*).
GWYNNE, MAJOR F. W. W. Lena Goldfields Limited.
HAAS, W. H. Chile (*in part*).
HACKETT, CHARLES WILSON, M.A., PH.D. Mexico (*in part*).
HACKFORTH, E.
Invalidity Pensions; National Insurance; Health (*in part*).
HACKIN, J. Tibetan Art.
HADDON, ALFRED CORT, Sc.D., F.R.S.
Migration (*in part*); New Guinea (*in part*).
HADFIELD, SIR ROBERT A., D.Sc., M.INST.C.E., M.I.M.E., F.R.S. Engineering Education (*in part*).
HADOW, SIR WILLIAM HENRY, C.B.E., HON.D.MUS., LL.D., LITT.D., F.R.S.L., F.R.C.M. Bach; Haydn; Schubert.
HAGEDORN, HERMANN, A.B. Roosevelt, Theodore.
HAIG, LIEUTENANT-COLONEL SIR THOMAS WOLSELEY, K.C.I.E., C.S.I., C.M.G., C.B.E., M.A. Afghanistan (*in part*).
HAINES, A. H. Farm Buildings.
HALDANE, ELIZABETH SANDERSON, C.H., LL.D., J.P.
Nursing (*in part*).
HALDANE, JOHN BURDON SANDERSON, M.A.
Heredity (*in part*); Selection (*in part*).
HALE, EDWARD EVERETT.
Clarke, James Freeman; Everett, Edward.
HALE, GEORGE ELLERY, Sc.D., LL.D., PH.D. Spectroheliograph.
HALE, ROBERT L., A.M., LL.B., PH.D. Compensation (*in part*).
HALECKI, O., D.PH. Universities (*in part*).
HALFORD, JEANETTE, O.B.E.
Baby Farming; Foundling Hospitals (*in part*).
HALL, SIR ALFRED DANIEL, K.C.B., M.A., HON.LL.B., HON.D.Sc F.R.S. Agricultural Organization; Agriculture: A General Surve (*in part*).
HALL, CHARLES HENRY, B.A. Motor-Boat (*in part*).
HALL, GEORGE W. American Tobacco Company.
HALL, HARRY REGINALD HOLLAND, M.A., D.LITT., F.B.A F.S.A. Archaeology (*in part*); Chronology (*in part*); Dress (i *part*); Egypt (*in part*); etc.
HALL, RICHARD B., A.M., PH.D. Haiti; Santo Domingo.
HALL, RICHARD B. Title Insurance or Guarantee of Title.
HALL, R. DAWSON. Anthracite (*in part*); Coal and Coal Mining (i *part*); Physical Resources (*in part*).
HALL, WILLIAM CLARKE. Borstal System; Children, Protecti Laws (*in part*); Probation (*in part*); etc.
HALLETT, R. L., E.M. Lead (*in part*).
HALLIDAY, FRANK W., A.M.
Martial Law (*in part*); Military Law (*in part*).
HALLIDAY, WILLIAM REGINALD, M.A., B.LITT. Folklore.
HALLIWELL, W. J. T. Pilotage Laws (*in part*).
HALPHEN, LOUIS. Anjou; Fulk Nerra.
HAMER, S. H. Monuments, Preservation of (*in part*).
HAMILTON, A. R.
Cane Fencing; Epée-de-Combat (*in part*); Fencing (*in part*); etc.
HAMILTON, MARY AGNES. MacDonald, James Ramsay.
HAMLIN, TALBOT F., B.A., B.ARCH. Byzantine and Romanesqu Architecture; Gothic Architecture; Governmental Architecture; et
HAMMER, S. C., M.A. Drama (*in part*); Norway (*in part*); No wegian Language and Literature (*in part*).
HAMMOND, JOHN LAWRENCE (LE BRETON).
Industrial Revolution, The.
HAMMOND, COLONEL JOHN S. Ice Hockey (*in part*).
HAMOR, WILLIAM A. Motor Car Engines: Their Operation an Care; Research, Industrial (*in part*).
HAMPDEN, WALTER, M.A., LITT.D. Booth, Edwin (Thomas).
HANDLEY, L. DE B. Swimming (*in part*).
HANNAUER, GEORGE. Boston and Maine Railroad.
HANNAY, DAVID.
Byng, John; Fisher, J. A. (*in part*); Fox, Charles James (*in part*) Nelson (*in part*); Pepys (*in part*); St. Vincent, John Jervis; etc.
HANSEN, HARRY. Lawson, Victor Fremont.
HANTON, W. A., M.Sc.TECH.
Cotton and the Cotton Industry (*in part*); Weaving (*in part*).
HARADA, JIRO. Interior Decoration (*in part*); Ivory Carving (*i part*); Japanese Architecture; Japanese Sculpture; etc.
HARAHAN, W. J. Chesapeake and Ohio Railway Company.
HARBORD, JAMES G., B.S. Radio Corporation of America.
HARDEN, ARTHUR, D.Sc., PH.D., F.R.S. Vitamins.
HARDENBERGH, WESLEY, B.LITT.
Ham (*in part*); Meat Trade (*in part*); Refuse Disposal.
HARDENBURG, E. V., M.S.A., PH.D.
Potato: Cultivation, Production and Trade (*in part*).
HARDMAN, CANON OSCAR. Fasting.
HARDY, JOHN I. Wool (*in part*).
HARGROVE, W. H., B.S. Consolidated School (*in part*).
HARLEY, WILLIAM S., B.S. Motorcycles (*in part*).
HARMER, SIR SIDNEY FREDERIC, K.B.E., M.A., D.Sc., F.R.S. Cetacea; Polyzoa; Pterobranchia.
HARNACK, ADOLF. Millennium; Montanism (*in part*); Neoplatonism (*in part*); Origen; Sabellius; etc.
HARPER, IDA HUSTED. Women's Suffrage (*in part*).
HARPER, VICE-ADMIRAL JOHN ERNEST TROYTE, M.V.O. C.B. Falkland Islands, Battle of; "Goeben" and "Breslau" Navigation.
HARRINGTON, REV. H. Roman Catholic Church (*in part*).
HARRIS, G. MONTAGU, O.B.E. Taxation, Local (*in part*).
HARRIS, WALTER BURTON, F.R.G.S., F.S.A.
Abdel Krim; Tangier (*in part*).
HARRISON, AUSTIN. Harrison, Frederic.
HARRISON, FREDERIC, LITT.D. Ruskin, John.
HARRISON, G. B. Compass (*in part*).
HARRISON, H. AINSWORTH, M.Sc., PH.D., A.I.C.
Fluorene; Naphthalene.
HARRISON, H. S. Material Culture.

HARRISON, COLONEL LAWRENCE WHITAKER, D.S.O., F.R.C.P., R.A.M.C. Salvarsan; Venereal Diseases (*in part*); Wassermann Reaction.

HARRISON, ROBERT WILLIAM F. Royal Society (*in part*); Violin (*in part*).

HART, ALBERT BUSHNELL, LL.D., L.H.D. United States of America (*in part*).

HART, HEBER, K.C., LL.D. Auctions and Auctioneers (*in part*).

HART, JOHN HENRY ARTHUR, M.A. Asmoneus; Josephus, Flavius (*in part*); Sibylline Oracles (*in part*).

HARTFORD, J. A. Great Atlantic and Pacific Tea Company.

HARTLEY, BRIGADIER-GENERAL SIR HAROLD BREWER, C.B.E., M.A., F.R.S. Chemical Warfare (*in part*).

HARTLEY, R. V. L., A.B., B.Sc. Amplifiers.

HARVEY, E. MURRAY. Yugoslavia (*in part*).

HARVEY, E. NEWTON. Phosphorescence.

HARVEY, F. T., F.R.C.V.S. Veterinary Science (*in part*).

HARVEY, THOMAS EDMUND, M.A. Fox, George.

HASELOFF, ARTHUR. Illuminated Manuscripts.

HASKELL, WILLIAM N., D.S.M. Militia (*in part*).

HASSELKUS, J., A.M.MECH.I., F.O.S. Binocular Instrument.

HASTINGS, SOMERVILLE, M.S., F.R.C.S. Sinus.

HATCH, FREDERICK HENRY, O.B.E., PH.D., M.INST.C.E. China-Clay (*in part*); Hæmatite; Limonite; Ore Deposits; etc.

HATSCHEK, EMIL, F.INST.P. Colloids; Viscosity.

HAUCK, ALBERT, D.TH., PH.D., D.JURIS. Church History (*in part*); Relics.

HAUGHTON, JOHN L., D.Sc., F.INST.P., F.R.A.S. Metals.

HAVERFIELD, FRANCIS JOHN, M.A., LL.D., F.S.A., F.B.A. Boadicea; Britain (*in part*); Caledonia (*in part*); Ermine Street; Gaul (*in part*); Roman Army; Spain (*in part*).

HAWORTH, W. N. Carbohydrates.

HAWTREY, RALPH GEORGE. Banking and Credit (*in part*); Exchequer (*in part*); Finance; Great Britain (*in part*); Money.

HAY, ALEXANDER, N.D.A., N.D.D. Milk (*in part*).

HAYES, CARLTON HUNTLEY, A.M., PH.D. Gelasius (*in part*); Guibert; Lucius (*in part*); Matilda, Countess of Tuscany; Paschal II.; Sixtus IV. (*in part*); Victor (*in part*).

HAYNES, EDMUND SIDNEY POLLOCK. Civil Liberty (*in part*).

HAYNES, GEORGE EDMUND, A.M., PH.D. Negro, The American (*in part*).

HAYS, ARTHUR GARFIELD, M.A., LL.B. Theatres, Law Relating to (*in part*).

HAYWOOD, HAROLD LE ROY. Freemasonry (*in part*).

HAZLETT, OLIVE CLIO, PH.D. Quaternions.

HEADLAM, RT. REV. ARTHUR CAYLEY, M.A., D.D. Prayer, Book of Common (*in part*).

HEADLAM-MORLEY, JAMES WYCLIFFE, C.B.E., M.A. Benedetti, Vincent; Caprivi; Germany (*in part*).

HEARNSHAW, FOSSEY JOHN COBB, M.A., LL.D. English History (*in part*).

HEATH, DUDLEY. Art Teaching (*in part*).

HEATH, SIR THOMAS LITTLE, K.C.B., K.C.V.O., Sc.D., F.R.S. Apollonius of Perga; Archimedes; Diophantus; Euclid; Nicomachus; Pappus of Alexandria; Ptolemy (*in part*); Pythagoras; etc.

HEAWOOD, EDWARD, M.A. Elgon; Tanganyika Territory (*in part*).

HECKEL, G. B. Interior Decoration (*in part*).

HECKSTALL-SMITH, MAJOR BROOKE. Yachting (*in part*).

HEDDEN, WALTER PAGE, A.M. Railways (*in part*).

HEDGES, KILLINGWORTH, M.INST.C.E., M.I.E.E. Lightning Conductor.

HEDLEY, FRANK. Interborough Rapid Transit Company.

HEDLEY, RT. REV. JOHN CUTHBERT, O.S.B., D.D. Transubstantiation *in part.*

HEDRICK, ULYSSES PRENTISS, M.S., D.Sc. Peach; Pear; Plum; Quince, *in part.*

HEINE-GELDERN, ROBERT, FREIHERR von. Indonesia (*in part*).

HEINICKE, A. J., B.S.AGRI., M.A., PH.D. Fruit Farming (*in part*).

HEISE, G. W., M.S. Battery, Electric (*in part*).

HELDT, P. M., B.E.E. Motor Vehicles, Commercial (*in part*); Speedometers; Tractors.

HELE-SHAW, HENRY SELBY, D.Sc., LL.D., M.INST.C.E., M.I.MECH.E., F.R.S. Power Transmission (*in part*).

HEMPELMANN, FRIEDRICH, D.PH. Psychology, Comparative.

HEMPHILL, R. T. Fair (*in part*).

HENDERSON, A. F. Fireproofing (*in part*).

HENDERSON, BERNARD WILLIAM, M.A., D.LITT. Peloponnesian War.

HENDERSON, G. G., M.A., D.Sc., LL.D., F.R.S. Terpenes.

HENDERSON, HERBERT J. C. Motor Car (*in part*).

HENDERSON, HUBERT DOUGLAS. Cotton Control Board, The.

HENDERSON, JAMES, M.A., D.Sc. Mathematical Tables.

HENDERSON, PETER. Horticulture (*in part*).

HENDRICK, BURTON JESSE, M.A. Page, Walter Hines.

HENDRIE, J. M., M.A. National Insurance, Widows and Orphans Pensions; Old Age Pensions.

HENKE, E. Rheinisch-Westfalische Elektrizitatswerk.

HENNESSY, HARRIET L., L.R.C.S.I., L.R.C.P.I., M.D. Intestinal Obstruction; Plague (*in part*).

HENRY, R. M., M.A. Drama (*in part*).

HENRY, THOMAS ANDERSON, D.Sc. Alkaloids; Cinchona Bark, Alkaloids of; Glucosides, Natural.

HENRY, WILLIAM. Water Polo.

HENSHAW, F. F., B.Sc. Physical Resources (*in part*).

HENSON, THE RT. REV. HERBERT HENSLEY, M.A., D.D. Bible (*in part*); Church and State.

HERBERT, S., M.A. Syndicalism (*in part*).

HERBERT, WILLIAM DE BRACY. Arrest (*in part*); Bribery (*in part*); Criminal Law (*in part*); Infanticide (*in part*); etc.

HERIOT, T. H. P., F.I.C. Sugar (*in part*).

HERMANNSSON, HALLDOR. America (*in part*); Vinland.

HERON, HAROLD, F.C.S. Starch.

HERR, EDWIN MUSSER, PH.D., D.Sc. Westinghouse Electric and Manufacturing Company.

HERRIOT, EDOUARD. Danton; Jaurès, Auguste Marie.

HERROD-HEMPSALL, J. Bee-Keeping (*in part*).

HERTY, JR., CHARLES HOLMES, M.S., Sc.D. Physical Resources (*in part*).

HERTZ, VERY REV. JOSEPH HERMAN, PH.D., LITT.D. Jews (*in part*).

HERVEY, JOHN L. Horse-Racing and Breeding (*in part*).

HERZBERG, MAX J., A.B. Crane, Stephen.

HERZFELD, ERNST. Persepolis (*in part*).

HESPELT, E. H., A.M., PH.D. Spanish American Literature (*part*).

HESSE, R. Distribution of Animals.

HESSELS, JOHN HENRY, M.A. Gloss and Glossary (*in part*); Gutenberg, Johann.

HEWER, C. LANGTON, M.B., B.S., M.R.C.S., L.R.C.P. Scopolamine.

HEWINS, WILLIAM ALBERT SAMUEL, M.A. Protection (*in part*).

HEWITT, JOHN THEODORE, M.A., D.Sc., PH.D., F.R.S. Nitrogen, Fixation of (*in part*).

HEYNEMAN, JULIE HELEN. Sargent, John Singer.

HEYWOOD, LIEUTENANT-COLONEL T. G. G. Intelligence, Military; Serbian Campaigns.

HIATT, WALTER SANDERS. Circulars and Circularizing; Clubs (*in part*); Syndicate (*in part*).

HIBBERT, EVA, M.SC.TECH. Calico-Printing; Mercerizing; Textile Printing (*in part*); etc.

HICKS, G. D. Knowledge, Theory of.

HICKS, ROBERT DREW, M.A. Stoics.

HIGGINSON, A. HENRY, A.B. Hunting (*in part*).

HIGGINSON, CHARLES JAMES, C.B.E. Restriction of Enemy Supplies Department.

HIGGS, HENRY, C.B., LL.B. Budget (*in part*).

HILDEBRAND, KARL, D.PHIL. Sweden (*in part*).

HILDITCH, T. P., D.Sc., F.I.C. Glycerine.

HILL, A. V., O.B.E., Sc.D., F.R.S. Muscle and Muscular Exercise.

HILL, GEORGE FRANCIS, M.A. Numismatics (*in part*).

HILL, JAMES M., B.S. Physical Resources (*in part*).

HILL, LEONARD ERSKINE, M.B., F.R.S. Aerotherapeutics; Kata Thermometer; Light and Radiation in Relation to Health.

HILL, ROBERT T., A.B., PH.D. Education (*in part*).

HILLS, NINA L. (HON. MRS. EUSTACE HILLS). Day Nurseries.

HILTON, JOHN. Associations, Industrial; Combination in Industry; Competition in Industry; Strikes and Lock-outs (*in part*); Trusts; Unemployment Statistics (*in part*); etc.

HINCHLEY, JOHN WILLIAM, F.I.C., M.I.CHEM.E.
Chemical Engineering.
HIND, ARTHUR M., O.B.E., M.A., F.S.A. Engraving.
HIND, H. LLOYD, B.Sc., F.I.C. Beer (*in part*); Brewing (*in part*).
HIND, J. R. London and North Eastern Railway Company, The.
HIPKINS, ALFRED J., F.S.
Pianoforte (*in part*); Pitch, Musical (*in part*).
HIPPISLEY, COLONEL RICHARD LIONEL, C.B., F.R.A.S., F.R.S.
Linkages.
HIRN, YRJO. Finnish Literature.
HIROSE, ARTHUR P. Washing Machines.
HIRSCH, EMANUEL. Creeds (*in part*).
HITCHCOCK, ELDRED F., C.B.E. Wool, War Control of.
HOBDAY, F.T.G., C.M.G., F.R.C.V.S., F.R.S.E. Canine Distemper.
HOBHOUSE, L. T. Comparative Ethics; Comparative Psychology.
HOBSON, CHARLES KENNETH.
Capital, Export of; Profiteering (*in part*).
HOBSON, JOHN ATKINSON, M.A. Unemployment.
HOBSON, ROBERT LOCKHART. Potteries and Porcelains (*in part*).
HOCHWALT, A. F. Dog (*in part*).
HOCKING, WILLIAM E., A.M., PH.D., L.H.D.
Royce, Josiah (*in part*).
HODGE, FREDERICK W.
Cliff-Dwellings; North America (*in part*); Scalping.
HODGKIN, MAJOR ADRIAN ELLIOTT, M.C., M.A., F.I.C.
Bleaching Powder; Chlorine; Hydrochloric Acid; Soda; etc.
HODGKIN, THOMAS, B.A., LL.D., D.LITT.
Alaric (*in part*); Ravenna (*in part*); Vandals (*in part*).
HODGKINSON, WILLIAM R., C.B.E., PH.D., F.R.S.E.
Explosives (*in part*); Incendiary Mixtures; Lead Azide; Mercury, Fulminate of; Picric Acid, etc.
HODGSON, W. C. Herring.
HODOUS, LEWIS, M.A., D.D. Confucianism; Taoism.
HODSON, WILLIAM, A.B., LL.B.
Children, Protective Laws (*in part*); Legitimacy and Legitimation (*in part*); Social Service (*in part*).
HOFFMAN, ALBERT L.
International Telephone and Telegraph Corporation, The.
HOFFMAN, JOSEF.
Art Teaching (*in part*); Interior Decoration (*in part*).
HOGARTH, DAVID GEORGE, M.A., C.M.G., D.LITT., F.B.A.
Aegean Civilization (*in part*); Asia Minor (*in part*); Ephesus; Syria (*in part*); etc.; Lawrence, T. E. (*in part*); Schliemann.
HOGBEN, L.T., M.A., D.Sc. Cell; Chromosome; Comparative Physiology; Cytology (*part*); Endocrinology (*part*); Homology; Nucleus.
HOGG, HOPE W., M.A. Mesopotamia (*in part*).
HOLDEN, ARTHUR C., B.ARCH., M.A.
House Planning (*in part*); Social Architecture (*in part*).
HOLDEN, HALE.
Chicago, Burlington and Quincy Railroad Company.
HOLDICH, COLONEL SIR THOMAS HUNGERFORD, K.C.M.G., K.C.I.E., HON. D.Sc. Chitral (*in part*); Kabul; Kalat; North-West Frontier Province (*in part*); Quetta.
HOLLAND, EARDLEY L., M.D., F.R.C.S., F.R.C.P. Gynaecology.
HOLLAND, RAYMOND PRUNTY. Shooting (*in part*).
HOLLIDAY, TERANCE B. Book-Selling (*in part*).
HOLLINGWORTH, LETA S., M.A., PH.D. Family Psychology.
HOLLIS, H. P., B.A., F.R.A.S
Observatory, Astronomical; Photography, Celestial (*in part*).
HOLLOWAY, E., A.M. Whitman, Walt.
HOLLOWAY, JR., J. W., B.A., LL.B. Medical Legislation (*in part*).
HOLLWEG, ADMIRAL CARL. Tirpitz, Alfred von (*in part*).
HOLMES, SIR CHARLES JOHN, K.C.V.O., M.A., D.LITT.
Constable, John.
HOLMES, E., PH.D., A.I.C. Chemistry (*in part*); Distillation.
HOLMES, EDWARD MORELL. Opium (*in part*); Pharmacopoeia.
HOLMES, O. W. Carver, Jonathan.
HOLROYD, SIR CHARLES. Legros, Alphonse (*in part*).
HOLSTEIN, OTTO. Chan Chan; Trujillo.
HOLTZHEUER, WILLIAM.
Continental Caoutchouc and Gutta Percha Compagnie.
HONEY, W. B. Potteries and Porcelains (*in part*).
HOOPER, FRANKLIN HENRY, A.B.
Hancock, W. S.; Harvard University; Liberty Loans.
HOPKINS, ALBERT ALLIS. Fire Escapes (*in part*).
HOPKINS, SIR FREDERICK GOWLAND, M.A., M.B., D.Sc., LL.D F.R.C.P., F.R.S. Cystine; Glutathione.
HOPKINSON, SIR ALFRED, K.C., M.A., B.C.L., LL.D.
Adoption; Legitimacy and Legitimation (*in part*).
HOPWOOD, F. LLOYD, D.Sc., A.R.C.Sc., F.INST.P.
Physics in Medicine.
HORE, SIR ADAIR, K.B.E., C.B. War Pensions.
HORNADAY, WILLIAM TEMPLE, Sc.D., PH.D. Game Laws (*part*).
HORNE, REV. DOM. E., F.S.A. Glastonbury.
HORNER, FRED. Brake; Brazing and Soldering; Clutch; Fan; Lathe; Machine Tools (*in part*); etc.
HORNER, J. G., A.M.I.MECH.E. Screw; Tool.
HORST, E. CLEMENS. Hop, Cultivation of (*in part*).
HOSE, CHARLES, F.R.G.S., F.R.C.I., F.R.S.A. Beri-Beri; Black water Fever (*in part*); Borneo (*in part*); Brunei (*in part*); Java (*in part*); Malay Archipelago (*in part*); Sumatra (*in part*); etc.
HOSTER, MRS. CONSTANCE, F.I.P.S., F.I.S.A.
Forms of Address (*in part*).
HOTINE, CAPTAIN H., R.E. Stereophotogrammetry.
HOUGH, HENRY BEETLE, B.LITT. Martha's Vineyard; Nantucket
HOUGHTON, A. E. Serrano, Francisco; Spain (*in part*).
HOUSE, COLONEL EDWARD MANDELL.
Paris, Conference of (*in part*).
HOUSE, M. M., D.D.S. Teeth, Artificial.
HOUSEMAN, C. R., B.A. Oxygen.
HOUSTON, SIR ALEXANDER C., K.B.E., C.V.O., M.B., D.Sc F.R.S.E. Water Purification.
HOUTSMA, M. T. Seljūks (*in part*).
HOVEY, REV. HORACE CARTER, A.M., D.D. Luray Cavern.
HOWARD, ALEXANDER L. Teak (*in part*).
HOWARD, LELAND OSSIAN, PH.D., M.D., LL.D., Sc.D.
Chinch Bug; Colorado Potato Beetle; European Corn Borer; Harlequin Cabbage Bug; Wooly Apple Aphis; etc.
HOWARTH, F., B.Sc. Bryophyta.
HOWARTH, OSBERT JOHN RADCLIFFE, O.B.E., M.A.
Ireland; London, Norway, Scotland, *in part*.
HOWE, C. D., M.S., PH.D. Canada (*in part*).
HOWE, HARRISON E., M.S., Sc.D.
Chemical Apparatus (*in part*); Chemistry, Applied; Industrial Chemistry; Nitrogen, Fixation of (*in part*); etc.
HOWE, JOHN ALLEN, O.B.E., B.Sc., F.G.S., M.INST.M.M.
Fuller's Earth.
HOWSON, ELMER T., C.E. Railways (*in part*).
HRDINA, CARL. Dresdner Bank.
HROZNY, FRIEDRICH, D.PH. Hittites.
HSU, T. Societies of Art (*in part*).
HUBBARD, HOWARD ARCHIBALD, A.B., PH.D. Arizona.
HUBBARD, PREVOST. Asphalt.
HUBBARD, THEODORA KIMBALL, M.S.
Landscape Architecture (*in part*).
HUBER, MAX. Red Cross (*in part*).
HUDDLESTON, F. J. Balaclava; Crimean War (*in part*).
HUDNUT, JOSEPH, M.S.
Renaissance Architecture (*in part*); Sculpture (*in part*).
HUDSON, HILDA PHOEBE, O.B.E., M.A., Sc.D.
Analytic Geometry; Curve; Surface.
HUDSON, RAY M., M.E. Standardization (*in part*).
HUEFFER, FRANCIS, PH.D. Handel (*in part*).
HUGEL, BARON F. von.
John (The Apostle); John, Gospel of St.
HUGHAN, WILLIAM JAMES. Freemasonry (*in part*).
HUGHES, CHARLES EVANS, M.A., LL.B.
Monroe Doctrine, The.
HUGHES, CHARLES FREDERICK. Staff, Naval (*in part*).
HUGHES, E. E., M.A. Wales (*in part*).
HUGHES, H. GLYN, B.COM.
Cotton and the Cotton Industry (*in part*).
HULBERT, RAY G. Osteopathy.
HULL, A. EAGLEFIELD, F.R.C.O. Musical Notation.
HULL, JOHN A., PH.B., LL.B. Court-Martial (*in part*).
HUMPHRIES, ALBERT EDWARD, HON.LL.D.
Flour and Flour Manufacture (*in part*); Middlings; Semolina.
HUNKIN, JOSEPH WELLINGTON, O.B.E., M.C., B.D.
Palestine (*in part*).

HUNT, ARTHUR S., M.A., D.Litt., F.B.A. Papyrology.
HUNT, F. R. W., M.A. Ballistics.
HUNTER, ARTHUR, LL.D., F.R.S.E., F.F.A. Annuity (*in part*).
HUNTER, DARD. Watermarks.
HUNTER, FRANCIS T., B.S. Lawn Tennis and Tennis (*in part*).
HUNTER, MAJOR REGINALD GORDON PULTENEY, O.B.E., R.E. Barracks.
HUNTER, SIR ROBERT, C.B., M.A. Commons (*in part*).
HUNTINGDON, ELLSWORTH, M.A., Ph.D. Fire.
HURLESTONE-JONES, F. R., M.A. Training Corps, Officers'.
HURREN, S. A.
Pianoforte (*in part*); Pianoforte Manufacture; Player-Piano.
HUSIK, ISAAC, A.M., Ph.D., LL.B. Jewish Philosophy.
HUSMANN, GEORGE C. Vine (*in part*).
HUSSERL, EDMUND. Phenomenology.
HUTCHINSON, HORATIO GORDON, B.A. Golf (*in part*).
HUTCHINSON, J. Africa (*in part*).
HUTCHISON, A. F., M.A. Wallace, Sir William (*in part*).
HUTCHISON, ROBERT, M.D., F.R.C.P.
Alimentary System, Diseases of the.
HUTTON, REV. ARTHUR WOLLASTON, M.A.
Leo XIII. (*in part*); Manning, Cardinal (*in part*); Newman, Cardinal; Wiseman, Cardinal.
HUTTON, EDWARD. Boccaccio, Giovanni.
HUTTON, J. H., D.Sc., C.I.E. Asia (*in part*); Cynotherapy; Head-Hunting; Lycanthropy; Metempsychosis (*in part*); etc.
HUXLEY, JULIAN SORELL, M.A.
Courtship of Animals; Dedifferentiation; Evolution, Organic (*in part*); Individuality; Metamorphosis (*in part*); Selection (*in part*).
HYDE, DOUGLAS, LL.D., D.Litt. Irish Literature (*in part*).
HYMANS, HENRI SIMON, Ph.D.
Rubens (*in part*); Van Dyck (*in part*).
IJAMS, G. E. Pensions: The United States (*in part*).
ILBERT, SIR COURTENAY PEREGRINE, K.C.B., K.C.S.I., C.I.E. Evidence (*in part*).
IMISON, C. S. Sulphuric Acid.
IMMS, A. D., M.A., D.Sc. Apterygota; Bee; Coleoptera; Dragon-Fly; Entomology (*in part*); Hymenoptera; Insects; Social Insects; etc.
IM THURN, SIR EVERARD, K.C.M.G., K.B.E., C.B.
Pacific Islands (*in part*).
INGE, DEAN, D.D., C.V.O., F.B.A., Hon.D.Litt., Hon.LL.D. Plotinus.
INGHAM, P. B. Eurhythmics.
INGPEN, ROGER. Shelley, Percy Bysshe (*in part*).
INGRAM, BERESFORD, M.A. Continuation Schools (*in part*).
INGRAM, JOHN KELLS, LL.D.
Senior, Nassau William (*in part*); Slavery (*in part*).
INGRAM, THOMAS ALLAN, M.A., LL.D. Bill of Sale (*in part*); Children, Protective Laws (*in part*); Holiday.
INNES, ALEXANDER TAYLOR, M.A., LL.D. Knox, John.
INNES, WILLIAM T. Ives, Frederic Eugene.
INNIS, H. A., M.A., Ph.D. Canada (*in part*).
INWARDS, H. Straw and Straw Manufactures.
IRONSIDE, MAJOR-GENERAL SIR WILLIAM EDMUND, K.C.B., C.M.G., D.S.O. Masurian Lakes; Russia, Campaign in North; Russo-Polish Campaign; Tannenberg, Battle of.
IRVINE, WILLIAM FERGUSSON, Hon. M.A. Liverpool (*in part*).
ISAAC, JULES.
Dramatic Criticism; Anne of France; Francis I. (*in part*).
ISAACS, EDITH J. R. Little Theatre Movement (*in part*).
ISAACS, NATHAN, A.M., Ph.D., LL.D., S.J.D. Arbitration (*in part*).
ISAACS, S. C., B.A., LL.B. Theatres, Law Relating to (*in part*).
ISSERLIS, L., M.A., D.Sc. Shipping: Wreck Statistics (*in part*); Shipping: Merchant Ships of the World (*in part*).
IVES, HERBERT E., B.S., Ph.D. Television.
IVY, ANDREW CONWAY. Anaemia (*in part*).
JACK, GEORGE. Sculpture Technique (*in part*).
JACKSON, DUNHAM, A.M., Ph.D. Polynomial.
JACKSON, HENRY, O.M., Litt.D., LL.D., F.B.A. Parmenides of Elea; Sophists; Thales of Miletus (*in part*); Xenocrates (*in part*).
JACKSON, SIR HERBERT, K.B.E., F.R.S.
Microscope (*in part*); Microscopy (*in part*).
JACKSON, J., M.A., D.Sc. Moon; Planetarium.
JACKSON, LLOYD E., B.S. Dry Cleaning.
JACKSON, MAJOR-GENERAL SIR LOUIS CHARLES, K.B.E., C.B., C.M.G., R.E. South African War (*in part*).
JACOBS, REV. CHARLES MICHAEL, A.B., D.D. Lutherans (*part*).
JACOBS, JOSEPH, Litt.D.
Jew, The Wandering (*in part*); Passover (*in part*).
JADWIN, EDGAR, Hon. D.E. Great Lakes; Hudson River; Mississippi River (*in part*); Missouri River; etc.; Washington.
JAMES, CHARLES, Hon. D.Sc. Cerium; Dysprosium; Europium; Gadolinium; Holmium; Neodymium; Praseodymium; Rare Earths; Samarium; Ytterbium; etc.
JAMES, E. IBBETSON, O.B.E., M.A.
Aytoun, W. E.; Chesterton; Chevalier, Albert; Lloyd, Marie.
JAMES, F. E. SKONE, B.A., B.C.L. Copyright (*in part*).
JAMES, MONTAGUE R., Litt.D., F.S.A., F.B.A. Eton.
JAMES, WILLIAM PRICE. Kipling, Rudyard (*in part*).
JARDINE, WILLIAM M., B.S., LL.D. Farmers' Organizations (*in part*); Government Departments (*in part*).
JASTRZEBSKI, S. de, F.S.S.
Birth-Rate; Death-Rate; Illegitimacy; Marriage-Rate; Suicide; etc.
JAYNE, KINGSLEY GARLAND.
Malay Archipelago (*in part*); Portugal (*in part*); etc.
JEANS, SIR JAMES HOPWOOD, M.A., D.Sc., LL.D., F.R.S.
Cosmogony; Kinetic Theory of Matter; Relativity.
JEBB, SIR RICHARD CLAVERHOUSE, O.M., LL.D., D.C.L.
Greek Literature (*in part*); Aristophanes; Demosthenes; and, *in part*, Isocrates, Pindar, Thucydides, etc.
JEFFERIES, ZAY, B.S., D.Sc. Alloys.
JEFFERSON, G., F.R.C.S., L.R.C.P.
Brain, Surgery of; Spinal Column, Surgery of.
JEFFERSON, MARK, A.M. Argentina (*in part*).
JEFFREYS, H., M.A., D.Sc., F.R.S. Earth.
JENKINS, E. D. T. Constitution of Athens.
JENKINSON, HILARY, M.A., F.S.A. Exchequer (*in part*); Tally.
JENNESS, DIAMOND. Ivory Carving (*in part*).
JESPERSEN, OTTO, Ph.D., Litt.D., LL.D., F.B.A.
Grammar; Philology.
JESSUP, WALTER ALBERT, M.A., Ph.D., LL.D.
Iowa; Iowa, State University of.
JEVONS, WILLIAM STANLEY, M.A. Boole, George.
JEWKES, JOHN, M. Comm.
Cotton and the Cotton Industry (*in part*).
JOHNSON, A. LEROY, Sc.D. Orthodontia.
JOHNSON, C. T. Confectionery Manufacture.
JOHNSON, C. W. Sarawak (*in part*).
JOHNSON, EMORY RICHARD, Ph.D., Sc.D.
Inter-State Commerce; Transport (*in part*).
JOHNSON, JAMES WELDON, A.M., Litt.D.
Negro, The American (*in part*).
JOHNSON, NELSON T. Government Departments (*in part*).
JOHNSON, O. M. Farm Rents (*in part*).
JOHNSTON, ALEXANDER. United States of America (*in part*).
JOHNSTON, CHARLES. Song Birds.
JOHNSTON, CHARLES HAVEN LADD, A.B.
McClellan, George Brinton.
JOHNSTON, GEORGE ALEXANDER, M.A., D.Phil.
Child Welfare and Child Labour (*in part*).
JOHNSTON, SIR HARRY HAMILTON, G.C.M.G., K.C.B., Sc.D., F.R.G.S. Africa, Liberia, Tunisia, Uganda, (*in part*).
JOHNSTON, HENRY PHELPS. American Revolution (*in part*).
JOHNSTON, J. DUDLEY. Photography (*in part*).
JOHNSTONE, JAMES A., D.Sc. Marine Biology (*in part*); Plankton.
JOLLIFFE, ARTHUR ERNEST, M.A.
Continued Fractions; Maxima and Minima; Series.
JOLOWICZ, H. F., M.A., LL.B. Roman Law.
JOLY, CHARLES JASPER, F.R.A.S., F.R.S. Camera Lucida.
JONES, B. MELVILL, A.F.C., M.A., F.R.Ae.S. Aerodynamics.
JONES, E. A., M.A., F.S.A., F.R.Hist.S. Golden Rose (*in part*); Mace (*in part*); Silversmiths' and Goldsmiths' Work (*in part*).
JONES, ERNEST, M.D., B.S., M.R.C.P., D.P.H.
Abnormal Psychology; Freud, Sigmund.
JONES, E. TAYLOR, D.Sc., F.Inst.P., F.R.S.E.
Electromagnet; Induction Coil.
JONES, HENRY LEWIS, M.A., M.D., F.R.C.P., M.R.C.S.
X-Ray Treatment.

JONES, HENRY STUART, M.A., D.Litt., F.B.A.
Caesar; Constantine; Rome (*in part*); Roman Art (*in part*).
JONES, L. RODWELL, B.Sc., Ph.D. Alberta; Manitoba.
JONES, SIR ROBERT, C.B., K.B.E., Ph.D., D.Sc., F.R.C.S.
Orthopaedic Surgery (*in part*).
JONES, ROBERT, D.Sc. (Econ.). Central Schools.
JONES, ROBERT EDMOND. Theatre (*in part*).
JONES, S. Voice (*in part*).
JONES, VERNON S., LL.B. Laws Relating to Seamen (*in part*).
JONES, W. A. Cities Service Company.
JOPSON, N. B., B.A. Old Slavonic; Polish Language; Russian Language and Literature (*in part*); Serbo-Croat Languages and Literature (*in part*); etc.
JORDAN, DAVID STARR, M.S., M.D., Ph.D.
Agassiz, Jean Louis Rodolphe.
JORDAN, EDWIN OAKES, Ph.D., Hon.Sc.D.
Botulism; Food Poisoning.
JOSEPH, HELEN HAIMAN, B.A. Marionettes or Puppets.
JOSEPH, H. W. B., M.A. Species (*in part*).
JOURDAIN, REV. F. C. R., M.A. Cuckoo.
JOYCE, T. A., M.A., O.B.E. Colombia (*in part*); Dress (*in part*); Inca; South America (*in part*); West Indies (*in part*).
JUDD, CHARLES H., Ph.D., LL.D.
Education (*in part*); Elementary Education (*in part*).
JULL, M. A., B.S.A., M.S., Ph.D.
Poultry and Poultry Farming (*in part*); Turkey (*in part*).
JUTZI, W. Dyeworks and Chemical Industries, Amalgamation of.
KAHN, ELY JACQUES, A.B., B.Arch.
Colour in Architecture, Shop Front Design (*in part*).
KALLEN, HORACE MEYER, A.B., Ph.D. James, William.
KANDEL, ISAAC LEON, M.A., Ph.D.
Classical Education (*in part*); Degree (*in part*).
KANG, YOUNGHILL, B.S., Ed.M. Dance (*in part*); Dress (*in part*); Korea (*in part*); Li Po; Tonghak; Tu Fu; etc.
KARPEN, LEO. Furniture Manufacture (*in part*).
KATZENELLENBAUM, S. S. Soviet Banking System.
KEELER, O. B. Golf (*in part*).
KEELEY, JAMES. Pullman Company, The.
KEELING, S. V., M.A. Cartesians.
KEEN, B. A., D.Sc. Soil (*in part*).
KEETON, G. W., M.A., LL.M. Torture (*in part*).
KEILIN, D., M.A., D.Sc. Parasitology.
KEIPER, FRANK, M.A., M.E., LL.B. Voting Machines.
KEITH, SIR ARTHUR, M.D., F.R.C.S., D.Sc., F.R.S.
Man, Evolution of.
KELLETT, E. E. Webster, John; and Prose, Prologue, Rhythm, Sonnet, etc., *in part*.
KELLEY, CHARLES F. Bronze and Brass Ornamental Work (*part*).
KELLEY, FLORENCE, B.Litt., LL.B. Sweating System (*in part*).
KELLEY, R. F. Polo (*in part*).
KELLOGG, FRANK BILLINGS, LL.D. Outlawry of War (*in part*).
KELLOGG, VERNON, LL.D., Sc.D.
Burbank, Luther; Hoover, Herbert Clark.
KELLY, BT.-COLONEL EDWARD HENRY, D.S.O., M.C.
Fortification and Siegecraft (*in part*).
KELLY, MAJOR EDWARD L. Physical Culture.
KELSEY, CLARENCE HILL, A.M., LL.B.
Title Guarantee Companies.
KELTIE, SIR JOHN SCOTT, LL.D., F.S.A., F.R.G.S.
Africa (*in part*); Livingstone, David.
KEMP, H. R. Canada (*in part*).
KEMPFF, C. S. Ship Lanes of the North Atlantic.
KENDALL, PERCY F., M.Sc. Glacial Period.
KENDRICK, ALBERT FRANK, F.R.S.A. Dress (*in part*); Interior Decoration (*in part*); Tapestry; Textiles and Embroideries (*in part*).
KENDRICK, BENJAMIN B., M.A., Ph.D. Calhoun, J. C.; Hayes, Rutherford B.; Johnson, Andrew; Quincy, Josiah.
KENDRICK, T. D., M.A. Balearic Islands (*in part*); Corsica (*in part*); Druidism; Malta (*in part*); Sardinia (*in part*).
KENNEDY, ALBERT J., A.B., S.T.B. Social Settlements (*in part*).
KENNEDY, REV. ARCHIBALD R. S., D.D. Tabernacle.
KENNEDY, SIR CHARLES MALCOLM, K.C.M.G., C.B.
Commercial Treaties (*in part*).
KENNEDY, CAPTAIN J. N. Artillery (*in part*).
KENNEDY, CAPTAIN M. D. Japan (*in part*).
KENT, FRANK RICHARDSON, M.A. Democratic Party.
KENYON, DOROTHY, A.B., D.J. Husband and Wife (*in part*).
KENYON, SIR FREDERIC GEORGE, K.C.B., G.B.E.
Museums and Art Galleries (*in part*).
KERN, R. A., A.B., M.D. Anaphylaxis.
KERR, JOHN GRAHAM, M.A., F.R.S.
Vertebrata; Vertebrate Embryology.
KERR, PHILIP HENRY, M.A. Rhodes Scholarships.
KERRISON, A. V., R.A. Sights (*in part*).
KESTER, R. B., A.M., Ph.D.
Balance Sheet (*in part*); Cost Accounting.
KETCH, JAMES M., B.S., E.E. Reflectors.
KETTERING, CHARLES FRANKLIN, E.E., M.E., D.E., D.Sc.
KEUTGEN, FREIDRICH WILHELM EDUARD, Ph.D.
Commune, Mediaeval.
KEYES, HENRY WILDER, A.M., LL.D. New Hampshire.
KEYNES, GEOFFREY LANGDON, M.A., M.D., F.R.C.S.
Blake, William.
KIDDY, ARTHUR WILLIAM.
Consols; Floating Debt; National Debt (*in part*); War Finance.
KILBORN, HOLLOWAY, Ph.D., E.E. Drop Forging (*part*); Forging.
KIMBALL, DEXTER S., A.B., LL.D. Technical Education (*in part*).
KIMBALL, FISKE, A.B., Ph.D.
Interior Decoration (*in part*); Modern Architecture (*in part*).
KIMBALL, INGALLS. Pensions: The United States (*in part*).
KING, JOHN, J.P. Light Thin Castings Industry.
KING, W. B. R., M.A., F.G.S. Coprolites; England (*part*); Springs.
KING, WILLFORD I., Ph.D. National Savings (*in part*).
KING-PAGE, DOUGLAS. Marine Insurance (*in part*).
KINGSFORD, CHARLES LETHBRIDGE, M.A., F.R.Hist.S., F.S.A. Buckingham, Duke of; Edward IV.; Henry IV.; Richard II.; Salisbury, Thomas de Montacute; Somerset, Duke of; Whittington, Richard; etc.
KINGSFORD, H. S., M.A. Seals (*in part*).
KINKELDEY, OTTO, M.A., Ph.D. Chinese Music.
KINLEY, DAVID, Ph.D., LL.D. Illinois; Illinois, The University of.
KIRBY, ROLLIN. Cartoon (*in part*).
KIRCHWEY, GEORGE W., LL.D. Criminology; Habitual Offenders (*in part*); Juvenile Offenders (*in part*); Penology; etc.
KIRK, EDWARD CAMERON, Sc.D. Dentistry (*in part*).
KIRKUP, THOMAS, M.A., LL.D.
Julian (*in part*); Lassalle, Ferdinand.
KITCHEN, JOSEPH, F.S.S. Physical Resources (*in part*).
KITSON, HARRY DEXTER, A.M., Ph.D. Job Analysis.
KLAUDER, CHARLES Z. University Architecture.
KLEIN, MAJOR ADRIAN B., M.B.E. Colour Music.
KLEIN, FRITZ, Ph.D. Luther, Hans.
KLEIN, JULIUS, M.Litt., Ph.D.
United States of America (*in part*).
KLEMIN, ALEXANDER, B.Sc., S.M. Gliding (*in part*).
KLOEKE, G. G. Dutch Language and Literature (*in part*).
KLUVER, HEINRICH, Ph.D. Eidetic Images.
KNAPP, A. W., M.Sc., F.I.C., M.I.Chem.E. Chocolate; Cocoa.
KNIGHT, CYRIL W., B.Sc., F.R.S.C. Pre-Cambrian.
KNIGHTS, CHARLES C. Salesmanship.
KNITTLE, RHEA M. Glass (*in part*).
KNOTT, HENRY WILLIAM HOWARD. Hughes, Charles Evans.
KNOWLES, C. M., LL.B. Workmen's Compensation (*in part*).
KNOX, MAJOR-GENERAL SIR ALFRED WILLIAM FORTESCUE, K.C.B., C.M.G. Nicholas (Grand Duke).
KNOX, DUDLEY W.
American Revolution (*in part*); War of 1812, The.
KNOX, E. V. Horace; Limericks; Parody.
KNOX, REV. GEORGE WILLIAM, D.D., LL.D.
Christianity (*in part*).
KNOX, J., D.Sc. Cyanamide.
KNOX, REV. RONALD ARBUTHNOT. Mystery Stories (*in part*).
KNOX, WINIFRED F. Saladin.
KNOX-SHAW, H., M.A., D.Sc., F.R.A.S. Nebula.
KOBBE, WILLIAM H. Sulphur, Special Applications of.
KOK, J. E. F. de. Royal Dutch Oil Company.
KOLB, LAWRENCE, M.D. Drug Addiction (*in part*).

KOLSRUD, SIGURD. Norwegian Language and Literature (*in part*).
KOMISARJEVSKY, THEODORE. Acting (*in part*).
KONODY, PAUL G.
Art (*in part*); Impressionism; Post-Impressionism; Potter, Paul.
KOOS, L. V., M.A., PH.D. Secondary Education (*in part*).
KRAEMER, GUSTAV. Vereinigte Industrie-Unternehmungen A. G.
KRAMER, A. WALTER. Broadcast Music (*in part*).
KRAPP, GEORGE PHILIP, A.M., PH.D. Slang (*in part*).
KRAUSE, ALLEN KRAMER, A.M., M.D. Tuberculosis (*in part*).
KREUTZBERG, H. Pantomime.
KROEBER, A. L., PH.D. North America (*part*); and articles on tribes and families of North American Indians.
KROM, N. J. Cambodia (*in part*); Java (*in part*).
KROPOTKIN, PRINCE PETER ALEXEIVITCH.
Anarchism (*in part*); Bulgaria, Eastern; Syr-Darya (*in part*).
KRUMBACHER, K. Greek Literature (*in part*).
KUHNE, MAJOR C. H., R.A.O.C., D.S.O., O.B.E.
Motor Transport, Military (*in part*).
KUHNEL, ERNST, PH.D.
Persian Art, Painting and Calligraphy (*in part*).
KUMLER, KATHERINE W. Home Sewing.
KUNZ, GEORGE FREDERICK, A.M., PH.D., Sc.D.
Jade and Other Hard Stone Carvings; Lapidary and Gem Cutting.
KURN, JAMES M. St. Louis-San Francisco Railway Company.
LAAMON, E. Estonia (*in part*).
LABOURET, HENRI. Africa (*in part*); Hausa (*in part*).
LACEY, REV. THOMAS ALEXANDER, M.A., D.D., F.S.A.
Augustine, Saint; Church (*in part*).
LAIDLAY, E. C. Fur.
LAKE, PHILIP, M.A., F.G.S. Cambrian System; Asia (*in part*); Continents, Origin of; Europe (*in part*); Germany (*in part*); etc.
LAMB, M. C., F.C.S., F.R.M.S. Leather.
LAMB, WALTER RANGELEY MAITLAND, M.A., M.V.O.
Academy Royal (*in part*).
LAMBERT, WALTER DAVIS, A.M. Geodesy.
LAMONT, STEWART M. Accident Insurance, Personal (*in part*).
LAMOUREUX, ANDREW JACKSON.
Atacama, Desert of; Bahia; Bogotá; Pará; Venezuela (*in part*).
LANCHESTER, FREDERICK WILLIAM, M.INST.C.E., M.INST.M.E., M.INST.A.E., F.R.S. Motor Car (*in part*).
LANDELLS, WALTER.
Company Promoting (*in part*); Jobber; Stockbroker (*in part*).
LANDER, C. H., D.Sc., M.INST.C.E., M.I.MECH.E., F.INST.P.
Fuel; Fuel Research Board.
LANDIS, CARNEY, A.M., PH.D. Psychogalvanic Reflex.
LANDIS, J. M., A.B., LL.B., S.J.D.
Ejectment (*in part*); Habeas Corpus (*in part*); Land Titles (*in part*); Petition of Right (*in part*); Trust and Trustees (*in part*); etc.
LANE, LIEUTENANT-COLONEL CLAYTON, M.D. Hookworm.
LANE, MORTIMER BLISS, A.B. Production, Census of (*in part*).
LANE-POOLE, STANLEY, M.A., LITT.D.
Burton, Sir Richard Francis.
LANG, ANDREW. Apparitions; La Cloche, James de (*in part*); Prometheus (*in part*); Second Sight; Tale (*in part*).
LANGDON, STEPHEN HERBERT, M.A., B.D., PH.D.
Assur; Babylonian and Assyrian Religion; Marduk; Mesopotamia (*in part*); Nebo (*in part*); etc.
LANGFIELD, HERBERT SIDNEY, PH.D.
Aesthetics, Experimental; Stumpf, Carl.
LANGWORTHY, R. A. Steam Accumulators.
LAPWORTH, HERBERT, D.Sc., M.INST.C.E., F.G.S. Well.
LARKINS, A. Early Closing Movement.
LARMOR, SIR JOSEPH, M.A., D.Sc., LL.D., F.R.S.
Energy (*in part*).
LARSEN, O. H. Denmark (*in part*).
LASKI, HAROLD J. Anarchism (*in part*); Bolshevism; Laissez-Faire.
LASKY, JESSE L. Motion Pictures (*in part*).
LATEY, WILLIAM.
Nullity of Marriage (*in part*); Press Laws (*in part*); etc.
LATHROP, JOHN HOWLAND, D.D. Unitarianism (*in part*).
LATOUCHE, ROBERT. Normandy (*in part*).
LATOURETTE, KENNETH SCOTT, M.A., D.D., PH.D.
China (*in part*); Chinese Eastern Railway; Chinese Literature; etc.
LAUGHTON, L. G. CARR. Ships' Figureheads.
LAURIE, ARTHUR PILLANS, M.A., D.Sc., F.R.S.E. Fresco Painting.
LAW, EDWARD F., A.R.S.M. Anti-Friction Metals.
LAW, K. C., F.C.I.I. Fire Insurance.
LaWALL, CHARLES H., PH.M., D.Sc. Pharmacy (*in part*).
LAWRENCE, A. W. Persia (*in part*).
LAWRENCE, COLONEL T. E. Guerilla, *Guerilla Warfare.*
LAWRENCE, W. H., B.S. Perspective.
LAWSON, LIEUTENANT-COLONEL E. F., D.S.O., M.C., T.D.
Yeomanry.
LAYARD, GEORGE SOMES.
Keene, Charles Samuel (*in part*); Linton, William James.
LAZARUS-BARLOW, PERCY, M.D.
Calculi; Rheumatism; Rheumatoid Arthritis.
LAZARUS-BARLOW, WALTER SYDNEY, M.D., F.R.C.P.
Arteries, Diseases of; Cancer Research; Inflammation and Its Sequels; Mammary Gland, Diseases of; Medical Research; etc.
LEACOCK, STEPHEN, PH.D., LITT. D., LL.D. Humour (*in part*).
LEADER, EDWIN O., LL.B. Rowing (*in part*).
LEAKE, JAMES MILLER, PH.D. Florida.
LEATHES, SIR STANLEY MORDAUNT, K.C.B., M.A.
Cromwell, Oliver.
LEBERGUE, PHILEAS. Greek Literature (*in part*).
LECKIE, JOHN. Pencil Drawing.
LE COQ, ALBERT v. Asia (*in part*).
LEDERER, EMIL, PH.D. Communism; International, The (*in part*).
LEDINGHAM, JOHN CHARLES GRANT, C.M.G., M.B., F.R.C.P., D.Sc., F.R.S. Bacteria and Disease (*in part*).
LEE, C. O. Lacrosse.
LEE, JAMES MELVIN, PH.D. Newspapers (*in part*).
LEE, ROBERT WARDEN, D.C.L. Roman-Dutch Law.
LEE, T. G. Beef (*in part*).
LEECH, LEWIS HARPER, M.A. Chicago.
LEE OF FAREHAM, RT. HON. VISCOUNT, G.C.S.I., G.B.E., K.C.B., F.S.A., F.R.I.B.A. Sulgrave Manor.
LEES, G. M., M.C., D.F.C., PH.D., F.G.S. Persia (*in part*).
LEE-WARNER, SIR WILLIAM, M.A., K.C.S.I.
Dalhousie, Marquess of.
LEFFINGWELL, W. H. Office Appliances; Office Management.
LEGGE, JAMES, LL.D.
Confucius (*in part*); Lao-Tse (*in part*).
LEGGE, ROBIN HUMPHREY. Debussy, Claude A. (*in part*).
LEGGETT, F. W. Industrial Relations (*in part*).
LEHMAN, EUGENE H., M.A. Camping (*in part*).
LEHMAN-HAUPT, C. F., M.A., PH.D., LL.D. Urartu.
LEIGH, RICHARD HENRY. Uniforms (*in part*).
LEIGH-MALLORY, WING COMMANDER T. L., D.S.O.
Air Co-operation (*in part*).
LEIPER, ROBERT THOMSON. Parasitic Diseases.
LELAND, S. E., A.M., PH.D. Land Taxes (*in part*).
LENTELLI, LEO, A.N.A. Sculpture Technique (*in part*).
LESCOHIER, DON D., A.M., PH.D. Casual Labour (*in part*).
LESSING, R., PH.D., F.I.C., M.I.CHEM.E. Carbolic Acid.
LETHABY, WILLIAM RICHARD. Design (*in part*).
LETHBRIDGE, THOMAS CHARLES.
Scandinavian Civilization (*in part*).
LEVESON, WILLIAM EGBERT, M.C., M.A.
Chang Tso-Lin; Chiang Kai-Shek.
LEVETT, ADA E., M.A. Manor (*in part*).
LEVI, NATHAN. Smuts, Jan Christiaan (*in part*).
LEVIN, ISAAC H. Gems, Artificial.
LEVINSON, ANDRE. Bakst, Leon.
LEVY, OSCAR, M.D., L.R.C.P., M.R.C.S.
Nietzsche Friedrich Wilhelm.
LEVY, REUBEN, M.A. Ecbatana; Susa.
LEWIS, CAL. Clothing Manufacture (*in part*).
LEWIS, H. Breton Literature; Cornish Literature.
LEWIS, R S., A.B., E.M. Mining, Metalliferous.
LEWIS, STUART, A.M., PH.D., D.C.L.
Budget (*in part*); Corrupt Practices; Initiative; etc.
LEWIS, WILLIAM DRAPER, LL.B., PH.D., S.S.D.
Judicial Reform (*in part*); Marshall, John.
LEWIS, W. S., M.Sc., F.R.G.S. Austria (*in part*); Austria, Lower; Czechoslovakia (*in part*); Hungary (*in part*); etc.

LEWISOHN, SAM, A.B., LL.B. Industrial Relations (*in part*).

LEWKOWITSCH, P. R. ELSA, PH.D., B.SC.HONS., A.R.C.S. Essential Oils (*in part*); Oils, Fats and Waxes (*in part*); Beeswax, Candle, Soap, etc., also *in part*.

LIDDELL, LIONEL CHARLES, M.V.O. Rationing of Neutrals (Blockade); War Trade Advisory Committee.

LIDDELL HART, CAPTAIN B. H., F.R.HIST. S. Allenby, Lord; Pershing, General; etc.; Strategy; World War (*in part*); Ypres (1917); etc.

LIEFMANN, ROBERT. Cartel.

LIEGLER, L. Vienna (*in part*).

LIETZMANN, HANS, D.THEOL. Baptism; Creeds (*in part*).

LIGHT, RAYMOND U. Argentina (*in part*); Colombia (*in part*).

LINDEMANN, FREDERICK ALEXANDER, PH.D., F.R.S. Electricity, Conduction of (*in part*); Solid State, Theory of.

LINDSAY, ALEXANDER DUNLOP, C.B.E., HON.LL.D. Adult Education (*in part*); Workers, Education of.

LINDSAY, SAMUEL McCUNE, PH.D., LL.D. Liquor Laws and Liquor Control; Prohibition.

LINDSAY, REV. THOMAS MARTIN, LL.D., D.D. Lollards (*in part*); Lutherans (*in part*); Thomas A. Kempis.

LING, A. R., F.I.C. Malt.

LIPMAN, JACOB GOODALE, A.M., PH.D., D.Sc. Agricultural Education (*in part*).

LIPPMAN, WALTER, A.B. Pulitzer, Joseph (*in part*).

LIPSETT, CALDWELL H. Afridi (*in part*).

LLEWELLYN, KARL N. Bill of Exchange, Contract, Foreclosure, Valuation and Valuers, etc. (*in part*).

LLOYD, CHARLES MOSTYN, M.A. Pauper; Poor Law (*in part*); Workhouse.

LLOYD, E. M. H. Industry, War Control of (*in part*).

LLOYD, G. I. H., M.A. Controlled Establishments.

LLOYD, J. E., M.A., D.LITT. Wales (*in part*).

LLOYD, NATHANIEL, O.B.E., F.S.A. Brickwork.

LLOYD-JAMES, A. Pronunciation.

LOASBY, A. W., D.B.A. Equitable Trust Company of New York.

LOBEL, EDGAR, M.S. Sappho.

LOCKE, ALAIN LE ROY, A.B., PH.D. Negro, The American (*in part*).

LOCKE, CHARLES E., S.B. Ore Dressing.

LOCKET, G. H. Spiders.

LOCKET, MARGERY. Motion Pictures (*in part*).

LODGE, GONZALEZ, A.B., PH.D., LL.D. Classical Education (*part*).

LODGE, SIR OLIVER (JOSEPH), D.Sc., LL.D., F.R.S. Ether; Music from Electric Oscillations; Physics; Spiritualism.

LOEWE, H. M. J. Calendar (*in part*); Chronology (*in part*); Jerusalem (*in part*); Jews (*in part*); Judaism; etc.

LOMAX, JOHN AVERY, M.A. Folk-Song (*in part*).

LOMBARDINI, M. S. Pirelli and Co.

LONDONDERRY, THE RT. HON. MARQUESS OF, K.G. Ireland, Northern (*in part*).

LONES, THOMAS EAST, M.A., LL.D. Celluloid; Meters, Electric.

LONG, EDWARD ERNEST, C.B.E. Celebes; East Indies; Malay Archipelago; New Guinea; and articles on the physiography of the islands of the East Indies.

LONG, H. C., B.Sc. Great Britain (*in part*); Oats: Cultivation and Trade (*in part*); Poisonous Plants (*in part*); Wheat (*in part*); etc.

LONG, JOHN C., B.A. Motoring (*in part*).

LONG, R.A. Lumbering.

LONG, RICHARD C. E., B.A., F.R.A.I. Calendar (*in part*); Chronology (*in part*).

LONGHURST, MISS M. H. Effigies; Ivory Carving (*in part*).

LONGHURST, PERCY. Wrestling (*in part*).

LONGLEY, W. H., PH.D. Fishes (*in part*); Photography (*in part*).

LONGLEY, W. R., A.M., M.S., PH.D. Descriptive Geometry.

LONGMUIR, PERCY, D.MET., M.B.E. Founding; Needle.

LONGNON, AUGUSTE. Blois, Countship of; Champagne.

LOOMIS, EDWARD EUGENE. Lehigh Valley Railroad, The.

LORD, ISABEL ELY, B.L.S. Budget, Family; Cookery (*in part*); Home Economics; Housekeeping (*in part*); etc.

LOREE, LEONOR F., M.Sc., C.E., LL.D. Delaware and Hudson Company.

LORIMER, LIEUTENANT-COLONEL D. L. R., C.I.E. Burushaski Language.

LOTHROP, SAMUEL K., A.B., PH.D. Central America (*in part*); Alacaluf; Ona; Pipil; etc.

LOUIS, HENRY, M.A., D.Sc., A.R.S.M., M.INST.C.E., F.I.C., F.G.S. Blowing Engines.

LOVEDAY, A. Europe as an Economic Unit; and the Economic History of Europe, Austria, Bulgaria, etc.

LOVEJOY, ELLIS, E.M. Brick (*in part*); Firebrick (*in part*).

LOWELL, A. LAWRENCE, LL.D., PH.D., LITT.D. Lowell Institute.

LOWES, JOHN LIVINGSTON, PH.D. Lowell, Amy.

LOWIE, ROBERT H. Relationship Terms.

LOWRY, T. M., C.B.E., D.Sc., F.R.S. Isomerism.

LUBIN, ISADOR, A.B., PH.D. Unemployment Statistics (*in part*).

LUCAS, EDWARD VERRALL. Austen, Jane; Lamb, Charles (*in part*).

LUCAS, FREDERIC AUGUSTUS, Sc.D. Museums of Science (*in part*).

LUCATO, C. R. Morris Motors (1926), Ltd.

LUCHAIRE, ACHILLE. Papacy (*in part*).

LUCHAIRE, JULIEN. Intellectual Co-operation, International Institute of.

LUCKOCK, BRIGADIER RUSSELL MORTIMER, C.M.G., D.S.O. Amiens, Battle of.

LUDWIG, EMIL. Hohenzollern Dynasty.

LUGARD, LADY, D.B.E. British Empire (*in part*); Nigeria (*in part*); Rhodes, Cecil John; etc.

LUGARD OF ABINGER, THE RT. HON. LORD, G.C.M.G., C.B., D.S.O., D.C.L., LL.D. Mandate; Ruanda-Urundi; Slavery (*in part*).

LUMSDEN, E., A.R.S.A. Etching (*in part*).

LUNDELL, R. A., B. of M.E. Pneumatic Tools.

LUNN, ARNOLD. Mountaineering (*in part*).

LUTZ, HERMANN. War Guilt (*in part*).

LUTZOW, COUNT. LITT.D., PH.D., F.R.G.S. Hussites.

LYALL, SIR CHARLES JAMES, K.C.S.I., C.I.E., LL.D. Arabic Literature (*in part*); Hamasa (*in part*); Hindostani Literature; Mofaddaliyat; Tulsī Dās (*in part*).

LYDEKKER, RICHARD, M.A., F.L.S., F.R.S. Bovidae; Sheep (*part*).

LYDENBERG, H. M., A.B. Libraries (*in part*).

LYELL, COLONEL DAVID, C.M.G., D.S.O., M.INST. C.E. Light Railways, Military (*in part*).

LYND, ROBERT. Bennett, Enoch Arnold.

MACADAM, I. S., O.B.E., A.M.I.MECH.E. Educational Associations (*in part*).

MACALISTER, ALEXANDER, M.A., M.D., LL.D., D.Sc., F.S.A., F.R.S. Palmistry; Phrenology (*in part*).

MACALISTER, ROBERT ALEXANDER STEWART, M.A., LITT.D., LL.D., F.S.A. Cu Chulainn; Deirdre; Diptych; Finn Mac Cumhaill; Idumaea (*in part*); Ireland (*in part*); Palestine (*in part*).

MacARTHUR, LIEUTENENT-COLONEL WILLIAM PORTER, D.S.O., O.B.E., R.A.M.C. Tropical Medicine.

MACARTNEY, CARLILE AYLMER. Austria Hungary (*in part*); Bulgaria (*in part*); Hungary (*in part*); etc.; Habsburg; Francis Joseph; Kun, Bela (*in part*); and other biographies of Austrian and Hungarian statesmen, etc.

MACARTNEY, MERVYN EDMUND, B.A., F.S.A., F.R.I.B.A. London (*in part*).

MACAULAY, GEORGE CAMPBELL, M.A. Gower, John.

MACAULAY, LORD. Bunyan; Goldsmith; Johnson, Samuel (*in part*).

MACAULAY, WILLIAM HERRICK., M.A. Motion, Laws of.

MacBRIDE, ERNEST WILLIAM, M.A., D.Sc., LL.D., F.R.S. Balanoglossus; Invertebrate Embryology; Metamorphosis (*in part*); Phoronis.

McBRIDE, GEORGE M., B.A., PH.D. Bolivia; and *in part*, Cuba, Paraguay, Uruguay, Venezuela, and West Indies.

McCALL, ARTHUR GILLET. Alkali Soils.

McCALL, JOHN OPPIE, A.B., D.D.S. Focal Infection (*in part*); Pyorrhoea (*in part*).

McCARTEN, EDWARD. Sculpture (*in part*).

McCARTER, THOMAS NESBITT, A.M. Public Service Corporation of New Jersey.

McCARTNEY, J. E., M.D., D.Sc. Carriers.

McCLELLAND, NANCY V., A.B. Interior Decoration (*in part*).

McCLURE, WILLIAM KIDSTON, C.B.E. Asiago, Battle of; Caporetto, Battle of; Italo-Turkish War; etc.

M'COLL, W. D. Mac; Scotland (*in part*).

McCONNELL, FRANCIS J., PH.D., D.D., LL.D.
Asbury, Francis; Methodism (*in part*).
McCONNELL, PRIMROSE, B.Sc., F.G.S.
Grass and Grassland (*in part*); Reaping; Sowing; Thrashing.
MacCORMAC, HENRY, C.B.E., M.D., F.R.C.P. Urticaria.
McCORMICK, SAMUEL BLACK, M.A., D.D., LL.D. Pittsburgh.
McCREA, ROSWELL C., A.M., PH.D.
Commercial Education (*in part*).
McDANIEL, J. S.
Rope and Rope-Making (*in part*).
MacDONALD, DUNCAN BLACK, M.A., D.D.
Islamic Institutions; Thousand and One Nights; etc.
MACDONALD, SIR GEORGE, K.C.B., M.A., HON.LL.D., HON.D. LITT., F.B.A. Britain (*in part*); Caledonia (*in part*); Gaul (*in part*); Spain (*in part*).
MacDONALD, J. H., B.G.S., M.C.S. Budget, Business.
MacDONALD, RT. HON. JAMES RAMSAY, M.P., LL.D.
Labour Party, The.
MACDONALD, SIR MURDOCH, K.C.M.G., M.INST.C.E.
Irrigation (*in part*).
MacDONALD, THOMAS H., B.C.E. Roads and Streets (*in part*).
MacDONALL, JR., ROBERT. Corundum, Artificial.
MACDONELL, ARTHUR ANTHONY., M.A., PH.D., LL.D., F.B.A.
Kalidasa.
MACDONELL, SIR JOHN, C.B., LL.D.
Protectorate; Sovereignty (*in part*).
MACDONELL, COLONEL MERVYN SORLEY, O.B.E.
Danzig (*in part*).
MACDONOGH, MICHAEL. Reporting (*in part*).
McDOUGAL, FRANK LIDGETT, D.B.E. British Empire (*in part*).
MacDOUGALL, ALICE FOOTE. Coffee, Preparation of.
McDOUGALL, WILLIAM., M.A., M.B., F.R.S.
Hallucination; Suggestion; Trance.
MACE, C. A., M.A. Psychology (*in part*).
McFADYEAN, SIR ANDREW, M.A.
Inter-Ally Council of War Purchases and Finance.
MACFADYEN, REV. DUGALD, M.A., F.R.HIST.S.
Concordance; Excommunication (*in part*); Glasites
McGIFFERT, ARTHUR CUSHMAN, A.M., D.D., PH.D., LL.D.
Church History (*in part*).
McGOVERN, JOHN TERENCE, LL.B. Track and Field Sports.
MacGOWAN, KENNETH, S.B. Theatre (*in part*).
MACGREGOR, A. Indian Law (*in part*).
McGREGOR, J. E. M., A.C.G.I., A.M.I.E.E. Pneumatic Despatch.
McGREGOR, JAMES HOWARD, M.A., PH.D.
Chimpanzee; Gorilla; Primates (*in part*).
McGUIRE, ELLSWORTH NEWCOMB. Loree, Leonor Fresnel.
McGUIRE, JR., JAMES CLARK. Acrodrome (*in part*); Alcohol in Industry (*in part*); Le Bourget Airport.
McHARDY, COMMANDER J. G. M., R.N. Ordnance (*in part*).
McILWAINE, HENRY READ, A.B., PH.D. Smith, John.
McILWRAITH, T. F. Canada (*in part*).
MACINTYRE, H. J., S.B., M.M.E.
Refrigeration and Ice Manufacture.
McKAY, ANDREW W., B.Sc. Agricultural Co-operation (*in part*).
MACKAYE, BENTON, A.M. Regional Planning (*in part*).
McKEE, ROLAND, B.S. Vetch (*in part*).
McKENNY, CHARLES, A.M., LL.D. Teachers, Training of (*in part*).
MACKENZIE, COMPTON, O.B.E., B.A. Gramophone (*in part*).
McKENZIE, ROBERT TAIT, M.D., LL.D.
Gymnastics and Gymnasium (*in part*).
MACKENZIE, RODERICK, M.A.
Greek Language (*in part*); Lettish Language; Lithuanian Language.
McKERROW, RONALD BRUNLEES, LITT.D. Parnassus Plays.
MACKINDER, SIR HALFORD JOHN, P.C. Trade Routes.
MACKINNON, DORIS L., D.Sc. Amoeba.
MACKINNON, JAMES, M.A., PH.D., D.D., F.R.S.E.
Covenanters; Luther, Martin.
MACKINTOSH, REV. ROBERT, M.A., D.D.
Apologetics; Dogma, Dogmatic Theology.
McLACHLAN, NORMAN W., D.Sc. (Eng.), M.I.E.E., F.INST.P.
Radio Receiver.
MACLAGAN, SIR EDWARD D., K.C.S.I., K.C.I.E., M.A.
Punjab (*in part*).
McLAUGHLIN, IRENE CASTLE. Dance (*in part*).
M'LEAN, NORMAN, M.A. Syriac Literature.
McLEOD, G. W. B., C.B.E. Taxation, Local (*in part*).
MacLEOD, J. J. R., M.B., CH.B., D.Sc., LL.D., F.R.S. Insulin
MacLEOD, JOHN MacLEOD HENDRIE, M.A., M.D., F.R.C.P.
Skin Diseases.
MACMILLAN, CHRYSTAL, M.A., B.Sc.
Women, Legal Position of (*in part*).
MACMILLAN, DAVID. Corrugated Iron.
McMILLAN, WALTER GEORGE, F.C.S., M.I.M.E. Graphite (*part*).
MacMILLAN-BROWN, J., M.A., HON.LL.D.
Pacific Ocean Questions.
MacMUNN, LIEUTENANT-GENERAL SIR GEORGE, K.C.B., K.C.S.I., D.S.O. Baluchistan (*part*); India (*part*); Indian Mutiny
McMURTRIE, DOUGLAS C.
Books (*in part*); De Vinne, Theodore Low.
MacNAIR, H. F., M.A., PH.D. Chinese Immigration.
McNAMARA, E. J., M.A., LL.D. Shorthand.
MacNEILL, EOIN, B.A., D.LITT. Ireland (*in part*).
MACPHERSON, JOHN, M.A., M.D., M.R.C.S. Paranoia.
MACPHERSON, SIR WILLIAM GRANT, K.C.M.G., M.B., D.P.H.
Medical Service, Army.
MADARIAGA, S. de, M.A.
Spain (*in part*); Spanish Language and Literature (*in part*).
MADDEN, JOHN THOMAS, B.S.S., M.A.
Accountancy and Accountants (*in part*); Fiduciary Accounting.
MADELIN, EMILE MARIE LOUIS, D-ès-L. Foch, Ferdinand.
MAGUIRE, JOHN M., A.B., LL.B. Evidence (*in part*).
MAINWARING, COLONEL A. E. Billiards (*in part*).
MAIR, ALEXANDER W., LITT.D.
Classics; Epicurus; Lucretius; Livy; Menander; Pliny, the Elder; Pliny, the Younger; Petronius; Polybius; Seneca; etc.
MAIR, DAVID BEVERIDGE, M.A. School and Curriculum (*in part*).
MAITLAND, FREDERICK WILLIAM.
Bracton, Henry de; English Law.
MAITLAND, JOHN ALEXANDER FULLER, M.A., F.S.A.
Brahms, Johannes.
MAITLAND, LESTER J. Aviation, Civil (*in part*).
MAJOR, H. C. United States of America (*in part*).
MAJOR, REV. HENRY DEWSBURY ALVES, D.D., F.S.A.
Modernism.
MALCOLM, SIR IAN, K.C.M.G., D.L., J.P. Suez Canal (*in part*).
MALCOLM, MAJOR-GENERAL SIR NEILL, K.C.B., D.S.O. (retired). Wilson, Sir Henry Hughes.
MALCOLM-SMITH, ELIZABETH F., M.A., PH D.
Canning, C. J.; Canning, George; Dilke, Sir Charles.
MALINOWSKI, BRONISLAW, PH.D., D.Sc.
Kinship; Marriage; Social Anthropology.
MALLALIEU, WILBUR E., M.E. Salvage Corps (*in part*).
MALLET, SIR CHARLES EDWARD. Gladstone, William Ewart.
MALLON, JAMES JOSEPH, M.A., J.P.
Social Settlements (*part*); Sweating System (*part*); Toynbee Hall.
MANGELS, MAX CORNILS. Kiel Canal.
MANGIN, CHARLES MARIE EMMANUEL, K.C.B.
Champagne, Battles in (*in part*).
MANLY, JOHN MATTHEWS, A.M., PH.D.
English Literature (*in part*).
MANNING, RT. REV. WILLIAM T.
Protestant Episcopal Church.
MANSHIP, PAUL. Sculpture (*in part*).
MANSKE, R. H. F., M.Sc., PH.D. Chemistry (*in part*).
MANSON, JAMES ALEXANDER. Bowls (*in part*).
MANSON, JAMES BOLIVAR. Painting (*in part*).
MANSON, J. LEASK, B.Sc., M.I.STRUCT.E., M.R.SAN.I.
Building Industry (*in part*); Foundations (*in part*); Structural Engineering (*in part*).
MANTZ, ELMER, PH.D. Banks, History of (*in part*).
MARAN, RENE. French African Literature.
MARCEL, GABRIEL. Bernard, Jean Jacques; Romains, Jules.
MARCH, BENJAMIN. Iron in Art (*in part*).
MARCHANT, REV. SIR JAMES, K.B.E., F.R.S.
Birth-Control (*in part*).
MARETT, ROBERT RANULPH, M.A., D.Sc., F.R.A.I.
Anthropology; Dynamism; Mana; Prayer; Religion (*in part*); etc
MARGOLIOUTH, DAVID SAMUEL, M.A., D.LITT., F.B.A. Egypt (*in part*); Ethiopic Literature (*in part*); Mohammed (*in part*); etc.

MARKBY, SIR WILLIAM, K.C.I.E., D.C.L. Indian Law (*in part*).
MARKS, LIONEL S., B.Sc., M.M.E. Mechanical Engineer; Power.
MARLOWE, C. Fens (*in part*).
MARQUAND, C. V. B. Asia (*in part*).
MARRIOTT, CHARLES, HON. A.R.I.B.A.
Religious and Memorial Architecture.
MARRIOTT, SIR JOHN ARTHUR RANSOME, M.A., M.P.
Baldwin, Stanley; Conservative Party.
MARSH, C. DWIGHT, A.M., PH.D., Sc.D. Poisonous Plants (*part*).
MARSH, EDWARD H., C.B., C.M.G., C.V.O. Brooke, Rupert.
MARSH, REV. F. S., M.A. Elijah; Elisha.
MARSH, LIEUTENANT-COLONEL W. LOCKWOOD, A.F.R.AE.S.
Aircraft in War (*in part*).
MARSHALL, F. H., M.A.
Greek Language (*in part*); Greek Literature (*in part*).
MARSHALL, F. H. A., M.A., D.Sc., F.R.S.
Reproduction, Physiology of.
MARSHALL, REV. NEWTON HERBERT, M.A., PH.D.
Baptists (*in part*).
MARSHALL, THOMAS MAITLAND, PH.D. St. Louis.
MARSTON, ELIZABETH H. Conditioned Reflex.
MARSTON, WILLIAM M., A.B., LL.B., PH.D.
Consciousness; Defence Mechanisms; Emotions, Analysis of; etc.
MARTEL, MAJOR G. le Q., D.S.O., M.C. Tanks.
MARTET, JEAN. Clemenceau, Georges.
MARTIN, SIR CHARLES JAMES, C.M.G., D.Sc., LL.D., F.R.C.P., F.R.S. Filter-Passing Viruses.
MARTIN, C. M., A.B. Gaming and Wagering (*in part*).
MARTIN, G., B.Sc. Rubber: Botany, Cultivation and Chemistry.
MARTIN, PAUL. Paris Metropolitan.
MARTIN, PERCY A. Brazil (*in part*).
MARTIN, THOMAS P., A.M., PH.D. Austin, Stephen Fuller; Dallas, G. M.; Green, Duff; McDuffie, George.
MARTIN, W. Switzerland (*in part*).
MARVIN, C. F., M.E. Sunshine (*in part*).
MARZIALS, SIR FRANK T., K.C.B.
Dumas, Alexandre; Zola, Emile Edouard Antoine.
MASARYK, THOMAS GARRIGUE. Czechoslovakia (*in part*).
MASON, ALFRED CHARLES, M.A. Rationing.
MASSEY, G. B., PH.D. Excavation (*in part*).
MASSON, CHARLES. Portrait Painting (*in part*).
MASSON, DAVID, LL.D. Milton, John (*in part*).
MASTERMAN, E. W. G. Sepulchre, The Holy.
MATHER, STEPHEN T. National Parks and Monuments (*in part*).
MATHERS, E. POWYS, B.A. Crossword.
MATHESON, COLONEL JOHN COLIN. Coast Defence (*in part*).
MATHEWS, SHAILER, D.D., LL.D.
Baptists (*in part*); German Baptist Brethren.
MATTHEW, WILLIAM DILLER, A.M., PH.D., F.R.S. Carnivora (*in part*); Equidae; Horse (*in part*); Toxodontia; Tylopoda; etc.
MATTHEWS, D. J. English Channel.
MATTHEWS, F. E., PH.D., F.I.C. Gold; Iridium; Osmium; Platinum; Rhodium; Ruthenium; Silver; etc.
MATTHEWS, R. BORLASE, A.M.INST.C.E., F.R.A.S.
Electrical Power in Agriculture (*in part*).
MATTHEWS, WALTER ROBERT, M.A., D.D. Theism.
MAUDE, COLONEL FREDERIC NATUSCH, C.B., R.E.
Franco-German War; Napoleonic Campaigns (*in part*); Seven Years' War (*in part*); etc.
MAUNSELL, LIEUTENANT-COLONEL FRANCIS RICHARD, C.B.E., C.M.G. Diarbekr (*in part*).
MAURICE, ARTHUR BARTLETT. Caricature (*in part*); Comic Strip.
MAURICE, MAJOR-GENERAL SIR FREDERICK BARTON, K.C.M.G. Haig, Earl; Jackson (Stonewall); Lee, Robert E.
MAURICE, HENRY GASCOYEN, C.B., B.A. Fisheries.
MAVROGORDATO, A. Miners' Phthisis.
MAWER, ALLEN, M.A. Aethelflaed; Aethelstan; Danelagh (*in part*); Denmark (*in part*); Edred; Edward (The Elder); Place Names.
MAWSON, THOMAS H., F.L.S. Landscape Architecture (*in part*).
MAXFIELD, J. P. Phonograph.
MAXSE, LIEUTENANT-GENERAL SIR F. IVOR, K.C.B., C.V.O., D.S.O. Infantry (*in part*).
MAXTED, EDWARD B., D.Sc., PH.D. Hydrogenation.
MAXWELL, JAMES CLERK, LL.D. Faraday, Michael (*in part*).
MAXWELL, WILLIAM HENRY, A.M.I.C.E. Destructors.
MAYBURY, BRIGADIER-GENERAL SIR HENRY PERCY, G.B.E., K.C.M.G., C.B., R.E. Traffic and Traffic Regulations (*in part*).
MAYER, OSCAR GOTTFRIED, A.B. Bacon (*in part*).
MEAD, ELWOOD, M.S., LL.D. Land Reclamation (*in part*).
MEAKIN, BUDGETT.
Almohades (*in part*); Almoravides (*in part*); Morocco (*in part*).
MEAKIN, KATE A. (MRS. BUDGETT MEAKIN). Morocco (*in part*).
MECHLIN, LEILA, M.A. Societies of Art (*in part*).
MEEHAN, JOHN F., LL.B. Football, Rugby (*in part*).
MEEK, H. B. Community Kitchen.
MEEKER, ROYAL, PH.D., LL.D. Cost of Living (*in part*).
MEES, CHARLES EDWARD KENNETH, D.Sc.
Motion Pictures (*in part*); Photography (*in part*).
MEHTA, K. P. Tata Sons, Limited.
MEILLET, ANTOINE. Albanian Language; Armenian Language.
MELLON, ANDREW WILLIAM. United States of America (*in part*).
MELLONE, SIDNEY HERBERT, M.A., D.Sc.
Anthropomorphism; Bible, English (*in part*); Christianity (*in part*); Gnosticism; Unitarianism; etc.
MELLOR, ARTHUR. Silk Manufacture (*in part*).
MELLOR, N. P. C. Saar (Saare) Territory.
MELVILLE, F. J. Philately.
MELVILLE, STANLEY, M.D., M.R.C.S. Radiotherapy.
MENCKEN, HENRY LOUIS. Americanism.
MENDELSOHN, ERICH. Industrial Architecture (*in part*).
MENZIES, REV. ALLAN, D.D. Scotland, Church of (*in part*).
MERKER, HERMAN, M.E. Containers, Metallic.
MERRILL, HON. FREDERICK JAMES HAMILTON, PH.D., F.G.S., M.A.INST.C.E. Quarrying.
MERRILL, MELVIN CLARENCE, A.M., PH.D. Cultivation (*part*).
MESTON, THE RT. HON. LORD, K.C.S.I., LL.D.
Delhi (*in part*); Egypt (*in part*); India (*in part*); etc.
MEYENDORFF, BARON ALEXANDER. Siberia (*in part*).
MEYER, ADOLF, M.D., LL.D. Insanity (*in part*).
MEYER, EDUARD, D.LITT.
Artabanus; Artaxerxes; Bactria; Darius; Demetrius; Media; Mithradates (*in part*); Parthia; Persia (*in part*); Persis; etc.
MEYERS, H. H., B.S. Fertilizers (*in part*).
MEYERSON, E. Explanation.
MEYNELL, ALICE. Browning, Elizabeth Barrett.
MEYNELL, FRANCIS. Books (*in part*).
MEYNELL, WILFRED. Meynell, Alice.
MICHELSON, A. A., PH.D., Sc.D., LL.D.
Interferometer (*in part*); Velocity of Light.
MICHOTTE, F. Belgium (*in part*).
MIDDLETON, JOHN HENRY, M.A., LITT.D., F.S.A., D.C.L.
Monreale (*in part*); Raphael (*in part*); Wren, Sir Christopher; etc.
MIERS, SIR HENRY ALEXANDER, D.Sc., F.G.S., F.R.S. Diamond.
MIJATOVICH, CHEDOMILLE. Karajich (*in part*).
MIKELL, WILLIAM E., LL.M., LL.D., D.C.L.
Criminal Law (*in part*).
MILBOURNE, R. J., M.INST.C.E. Gasholders.
MILES, J. HAMISH. Beerbohm, Max; Doughty, C.M.
MILIUKOV, PAUL, HON. LL.D. Duma; Russia (*in part*).
MILL, COURTENAY J. Stock Exchange or Bourse (*in part*).
MILL, HUGH ROBERT, D.Sc., LL.D. Geography.
MILLER, LIEUTENANT-COLONEL E.D., C.B.E., D.S.O.
Polo (*in part*).
MILLER, F. J. Scientific Management (*in part*).
MILLER, G. C. Lithography (*in part*).
MILLER, LLOYD R. Labour Turnover.
MILLER, S. N., M.A. Eburacum.
MILLER, WILLIAM, M.A., F.R.HIST.S.
Crete (*in part*); Dodecanese; Greece (*in part*); Thrace; etc.; Pangalos; Skanderbeg; Zaimis, Alexander.
MILLIGAN, REV. GEORGE, D.D., D.C.L. James.
MILLIKAN, ROBERT ANDREWS, PH.D., LL.D., Sc.D.
Electron.
MILLINGEN, ALEXANDER VAN, M.A., D.D.
Constantinople (*in part*).
MILLS, FREDERICK CECIL, PH.D. Prices, Statistics of (*in part*).
MILLS, JAMES PHILIP, M.A., I.C.S. Chakma; Magh; Mikir.

MILLS, MABEL H., M.A. Exchequer (*in part*).
MILLS, OGDEN L. Government Departments (*in part*).
MILLS, WILLIAM HOBSON, M.A., Sc.D., F.R.S.
Stereochemistry.
MILRANY, D. Peasant Movement.
MIMS, EDWIN, A.M., PH.D. South, The (*in part*).
MINER, RAY WALDO. Museums of Science (*in part*).
MINGOS, HOWARD L. Transport by Air.
MINNS, ELLIS HOVELL, LITT.D., F.S.A., F.B.A.
Europe (*in part*); Tauri.
MINORSKY, V. F.
Iranian Languages and Persian; Persian Literature.
MIRBT, CARL THEODOR, D.TH.
Pius IX. (*in part*); Trent, Council of (*in part*); Ultramontanism (*in* part); Vatican Council, The (*in part*).
MIRSKY, PRINCE D. S. Chekhov; Dostioevski; Gorki, Maxim; Russian Language and Literature (*in part*); Tolstoy; Turgenev; Ukranian Literature; etc.
MITCHELL, A. D., D.Sc., F.I.C. Allotropy; Ammonia; Calcium; Carbon Compounds; Hydrogen; Hydrogen-Ion Concentration (*in part*); Stoicheiometry; Sulphur; Water; etc.
MITCHELL, BROADUS, A.B., PH.D. South, The (*in part*).
MITCHELL, CHARLES EDWIN, B.A.
National City Bank of New York, The.
MITCHELL, J. C., J.P., F.C.I.S.
Underground Electric Railways Company of London Limited.
MITCHELL, J. G., PH.D., B.Sc. Perylene.
MITCHELL, JOHN MALCOLM, O.B.E., M.C., M.A., F.S.A.
Carnegie Trusts (*in part*); Neoplatonism (*in part*); Persia (*in part*); Sphinx (*in part*); etc.
MITCHELL, PETER CHALMERS, C.B.E., D.Sc., LL.D., F.R.S.
Alimentary Canal (*in part*); Biogenesis; Monster (*in part*); Zoological Gardens.
MITTEN, THOMAS EUGENE. Tramway (*in part*).
MOFFATT, REV. JAMES, M.A., D.D., D.LITT.
Galatians, Epistle to the; John, The Epistles of; Phillippians, Epistle to the; Timothy; Titus; etc.
MOFFATT, L. E. Household Appliances (*in part*).
MOHLER, J. R., A.M., D.Sc. Physical Resources (*in part*).
MONEUR, ALEXANDER.
Hongkong and Shanghai Banking Corporation.
MONEY, SIR LEO CHIOZZA, F.R.STAT.S., F.R.G.S., F.Z.S.
Articles on English Industrial and Shipping Concerns.
MONKHOUSE, WILLIAM COSMO. Hunt, William Holman (*in part*); Leighton, Lord; Millais, Sir John Everett (*in part*).
MONRO, C. C. A., M.A. Annelida (*in part*); Echiuroidea; Leech; Priapuloidea; Sipunculoidea.
MONTAGUE, FRANCIS CHARLES, M.A. English History (*in part*).
MONTAGU OF BEAULIEU, THE RT. HON. LORD, K.C.I.E., C.S.I.
Motoring (*in part*); Motor Transport, Commercial.
MONTGOMERY, GUSTAV ARTH. Finland (*in part*).
MOORE, H., D.Sc. Microscope (*in part*); Microscopy (*in part*).
MOORE, PHIL, E.M. Canoe (*in part*).
MOORE, ROBERT FOSTER, O.B.E., M.A., F.R.C.S.
Ophthalmology.
MOORHOUSE, EDWARD. Totalizator.
MORA, A. Plywood; Veneer.
MORE, JAMES A. Pig (*in part*); Sheep (*in part*).
MOREL-FATIO, ALFRED. Spanish Language and Literature (*in part*).
MORFILL, WILLIAM RICHARD, M.A. Nestor.
MORGAN, ARTHUR E., D.Sc. Antioch College.
MORGAN, CONWY LLOYD, D.Sc., F.R.S.
Emergence; Evolution and Mind; Animal Behaviour.
MORGAN, GEORGE, A.M., LL.D. Philadelphia.
MORGAN, GILBERT T., O.B.E., D.Sc., F.I.C., F.R.S.
Antimony; Arsenic; Bismuth; Diazo-Compounds; Mercury; Methyl Alcohol; Nitro-Compounds; Organo-Metallic Compounds; Ozone; Pyrazoles; Salicylic Acid; etc.
MORGAN, J. H., K.C.
Company Law (*in part*); Constitution and Constitutional Law (*in part*); Parliament (*in part*); Petition of Right (*in part*); etc.
MORGAN, MISS M. K. Scarborough; Skipton.
MORGAN, THOMAS HUNT, M.S., PH.D., LL.D.
Gene; Lamarckism.
MORISON, STANLEY.
Calligraphy; Printing Type (*in part*); Typography.
MORLEY, CHRISTOPHER, A.B. Henry, O.
MORLEY OF BLACKBURN, THE RT. HON. VISCOUNT.
Burke; Comte, Auguste (*in part*); Diderot (*in part*).
MORMINO, IGNAZIO. Sicily, Bank of.
MOROY, ELIE. Hospital (*in part*).
MORRELL, R. S., M.A., PH.D., F.I.C. Paints, Chemistry of (*part*); Ultramarine; Varnishes, Chemistry of (*part*); etc.
MORRIS, FRANCIS. Lace (*in part*).
MORRON, JOHN R. Atlas Portland Cement Company.
MORROW, H. L. Australian Literature; Street Cries.
MORROW, IAN F. D., PH.D. Black Sea (*in part*); Capitulations; Dardanelles; Straits Question; etc.; Beust, F. F. von; Bismarck-Schönhausen, Prince von; Cambon, Pierre Paul; etc.
MORSE, JR., JOHN TORREY. Holmes, Oliver Wendell.
MORTIMER, F. J., F.R.P.S. Photographic Art.
MORTIMER, HERBERT CLIFFORD. Divorce (*in part*).
MORTON, J. V. Chartreuse; Crême de Menthe; Curaçao.
MORTON, W. E., M.Sc.TECH.
Cotton and the Cotton Industry (*in part*).
MOSCA, GAETANO. Sicily (*in part*).
MOTT, SIR FREDERICK WALKER, K.B.E., M.D., F.R.C.P., F.R.S.
Neuralgia; Neurasthenia; Neuropathology; Paralysis.
MOULTON, CHARLES ROBERT, M.S.A., PH.D. Meat.
MOUNTAIN, SIR EDWARD MORTIMER, BART.
Fire Prevention and Extinction (*in part*).
MOYES, RT. REV. MONSIGNOR J., D.D. Pius XI. (*in part*).
MUDGE, GEORGE PERCIVAL, A.R.C.S., F.Z.S.
Incubators (*in part*).
MUDGE, ISADORE GILBERT, PH.D., B.L.S. Universities (*in part*).
MUDGE, LEWIS S., M.A., D.D., LL.D. Presbyterianism (*in part*).
MUHLFELD, JOHN E., M.E.
Locomotive Coaling (*in part*); Locomotive (*in part*).
MUIR, RAMSAY. Liberal Party.
MUIR, ROBERT, M.A., M.D., F.R.C.P., F.R.S.
Bacteria and Disease (*in part*).
MUIRHEAD, JAMES FULLARTON, LL.D.
Spitteler, Carl; Swiss Literature (*in part*); etc.
MUIRHEAD, JOHN HENRY, M.A., LL.D. Idealism.
MUIR-WOOD, HELEN M. Brachiopoda.
MULLER, H. J. Variation (*in part*).
MULLINGER, JAMES BASS, M.A. Universities (*in part*).
MUMFORD, LEWIS. Regional Planning (*in part*).
MUNRO, DANA C., A.M., L.H.D. Rome (*in part*).
MUNRO, NEIL, LL.D. Conrad, Joseph.
MURDOCK, KENNETH BALLARD, A.M., PH.D.
Longfellow; Mather, Cotton; Mather, Increase; Mather, Richard.
MURPHY, EDWIN S., A.B., LL.B. Salvage (*in part*).
MURPHY, SIR SHIRLEY FORSTER, F.R.S.
Slaughter-House (*in part*).
MURRAY, ALEXANDER STUART, LL.D. Lamp (*in part*).
MURRAY, DAVID LESLIE.
Beaconsfield, Benjamin Disraeli, Earl of.
MURRAY, GEORGE GILBERT AIME, M.A., LL.D., D.LITT., F.B.A., F.R.S.L. Drama (*in part*); Euripides; Homer; Homeric Poems.
MURRAY, MARGARET ALICE, F.S.A., F.R.A.I. Witchcraft.
MURRAY, W. L. Reuters.
MUSSEY, HENRY R., A.B., PH.D. Protection (*in part*).
MUZZEY, DAVID SAVILLE, A.B., B.D., PH.D.
United States of America (*in part*).
MYERS, A. WALLIS, C.B.E. Lawn Tennis and Tennis (*in part*).
MYERS, W. M., M.S. Physical Resources (*in part*).
MYRES, JOHN LINTON, O.B.E., M.A., D.Sc., F.S.A.
Argos (*in part*); Corfu; Crete (*in part*); Cyprus (*in part*); Oxford; Paphos: Thessaly; Troy and Troad (*in part*).
NAISMITH, JAMES, A.B. Basketball (*in part*).
NANSEN, FRIDTJOF, G.C.V.O., D.Sc., PH.D., F.R.G.S.
Refugees and Exchange of Populations.
NASH, MAJOR GENERAL SIR PHILIP ARTHUR MANLEY, K.C.M.G., C.B. Factory Construction and Planning.
NASMITH, FRANK, F.T.I. Cotton and Cotton Industry (*in part*).
NATHAN, COLONEL SIR FREDERICK LEWIS, K.B.E., M.I.CHEM.E., F.C.S. Alcohol in Industry (*in part*).
NATHAN, GEORGE JEAN, B.A. Drama (*in part*).
NATHAN, MAURICE. Flat.

NAVARRO, J. M. de, M.A.
Hallstatt; La Tène; Teutonic Peoples (*in part*).
NAYLOR, HENRY DARNLEY, M.A. Australia (*in part*); New South Wales (*in part*); Queensland (*in part*).
NEEDHAM, JOSEPH, M.A., PH.D.
Hopkins, Sir Frederick Gowland.
NEEDHAM, RAYMOND, K.C. Corporation Profits Tax.
NEEDLES, A. C. Norfolk and Western Railway Company, The.
NEERGAARD, CHARLES F. Hospital Planning.
NEERGAARD, EBBE. Drama (*in part*).
NEFF, ANDREW, A.B., M.S., PH.D. Buffer Action.
NEGUS, V. E., M.S., F.R.C.S. Voice (*in part*).
NEILSON, MATTHEW. Coates, J. and P., Ltd.
NEILSON, WILLIAM ALLAN, PH.D., LL.D., D.LITT.
Smith College.
NEILSON, WINTHROP C., A.B. Bauxite (*in part*).
NELSON, E. W., A.M., PH.D. Biological Survey.
NEVINS, ALLAN, A.M.
Hearst, William R.; Pulitzer, Joseph (*in part*); Washington, George.
NEW, HARRY STEWART, LL.D. Government Departments (*in part*); Post and Postal Services (*in part*).
NEWBIGIN, MARION I., D.Sc. Balkan Peninsula (*in part*); Bulgaria (*in part*); Greece (*in part*); Yugoslavia (*in part*); etc.
NEWCOMB, HARRY T., LL.M. Railways (*in part*).
NEWCOMB, J. CHURCHILL, A.B. Dog (*in part*).
NEWCOMB, SIMON. Neptune (*in part*).
NEWHOUSE, EDGAR L.
American Smelting and Refining Company.
NEWMAN, ALBERT H., LL.D., D.D. Baptists (*in part*).
NEWMAN, MAJOR E. W. POLSON. Damascus (*in part*).
NEWMAN, SIR GEORGE, K.C.B., M.D., F.R.C.P., D.P.H.
Preventive Medicine (*in part*).
NEWTON, A. PERCIVAL, M.A., D.LITT., B.Sc., F.S.A.
British Empire (*in part*).
NEYLAN, SIR DANIEL, C.B.E. Disposal Board.
NICHOL, JOHN. Burns, Robert.
NICHOLL, C. CARLYON, B.A., F.I.A., F.F.A.
Life Insurance (*in part*).
NICHOLS, ROYAL F., A.M., PH.D. Taylor, Zachary.
NICHOLSON, EDWARD MAX. Birds (*in part*).
NICHOLSON, EDWARD WILLIAMS BYRON, M.A.
Mandeville, Jehan de (*in part*).
NICOLLE, J. M. Buoy.
NICOLSON, HON. HAROLD, C.M.G. Hugo, Victor.
NIEMEYER, SIR OTTO (ERNST), K.C.B., G.B.E.
Debt Conversion.
NILES, ABBE, B.A., LL.B. Jazz.
NILSSON, MARTIN P. Calendar (*in part*).
NISBET, H., F.T.I. Cotton and the Cotton Industry (*in part*); Silk Fabrics, Artificial; etc.; Calico; Charmeuse, Gabardine, Satin, Shantung, etc.
NITCH, CYRIL ALFRED RANKIN, M.B., M.S., F.R.C.S. Urology.
NIXON, F. H. Poland (*in part*).
NOBLE, G. KINGSLEY, PH.D. Amphibia; Coecilia.
NOEL, EVAN BAILLIE.
Fives; Rackets or Racquets; Squash Rackets.
NOETZLI, FRED A., C.E., D.Sc. Dams (*in part*).
NOFFSINGER, JOHN S., A.M., PH.D. Correspondence Schools.
NOGUCHI, HIDEYO, M.D. Yellow Fever.
NOHARA, DAISUKE. Yokohama Specie Bank, Ltd., The.
NOLDEKE, THEODOR, PH.D. Arabic Literature (*in part*); Pahlavi (*in part*); Persepolis (*in part*); etc.
NOLEN, JOHN, A.M., PH.B., Sc.D. Garden Cities (*in part*).
NOLLAU, E. H., B.S. Leather, Artificial.
NORGATE, G. le G., B.A. Chelmsford, Frederick John Napier.
NORMAN, H. W. Air Brush.
NORMAND, E. Società Anonima "Ansaldo".
NORRIS, FRANCIS BENEDICT VINCENT. Droit, Administratif.
NORTH, FREDERICK J. Slate.
NORTON, CHARLES ELIOT, LITT.D., D.C.L., LL.D.
Curtis, George William.
NORWOOD, EDWIN P. Circus (*in part*).
NOTCUTT, H.C., PH.D. South African Literature (*in part*).
NOTMAN, ARTHUR, S.B., M.E. Physical Resources (*in part*).
NOVAK, ARNE, PH.D. Czech Language and Literature (*in part*).
NUNN, T. PERCY, M.A., D.Sc. Education (*in part*); Teachers, Training of (*in part*); Vocational Training (*in part*).
NUTT, ROBERT L. Seaboard Air Line Railway Company.
NYSTROM, PAUL HENRY, PH.D. Marketing (*in part*).
OAKELEY, HILDA D., M.A. Personality.
O'BRIEN, GEORGE, D.LITT., F.R.HIST.S., M.R.I.A.
Irish Free State (*in part*); Shannon.
OCAGNE, MAURICE D'. Nomography.
O'CONNOR, HARVEY. General Strike (*in part*).
O'CONNOR, SIR JAMES, P.C., K.C. Ireland (*in part*).
O'CONNOR, THOMAS V., LL.D. Shipping: Merchant Ships of the World (*in part*); Shipping Lines and Groups (*in part*).
O'DONNELL, T. C. Friendly Societies (*in part*).
OELSNER, HERMANN, M.A., PH.D. Italian Literature (*in part*); Provençal Language and Literature (*in part*).
OERTZEN, KARLLUDWIG von. Schlieffen, Alfred.
OESTERLEY, REV. W. O. E., M.A., D.D. Apocalyptic Literature, Apocryphal Literature and several of the Apocryphal Books (*in part*).
O'KEEFE, J. F. Commonwealth Edison Company.
OKEY, THOMAS, M.A. Basket (*in part*); Basketry (*in part*); Osier.
OLCOTT, FRANCES JENKINS. Children's Books (*in part*).
OLDFIELD, LIEUTENANT-COLONEL JOSIAH, M.D., F.R.S.M., D.C.L. Vegetarianism.
OLDS, GEORGE D., LL.D. Amherst College.
O'LEARY, REV. DE LACY EVANS, M.A., D.D. Arabia (*in part*).
OLIVER, FRANCIS WALL, M.A., D.Sc., LL.D., F.R.S.
Nature Reserves; Spartina.
OLIVER, SIR THOMAS, M.A., M.D., F.R.C.P. Dangerous Trades.
OLIVIER, CHARLES P., M.A., PH.D. Aurora Polaris; Meteor.
OLIVIER OF RAMSDEN, THE RT. HON. LORD, K.C.M.G., C.B., LL.D. Bahamas, Bermudas, British Honduras, Jamaica, *in part*.
OLSEN, NILS ANDREAS, A.M. Agricultural Credit (*in part*).
OLTAR-JEVSKY, W. Russian Architecture (*in part*).
O'MALLEY, L. S., C.I.E. Khasi and Jaintia Hills (*in part*).
OMAN, SIR CHARLES (WILLIAM CHADWICK), K.B.E., F.S.A., HON.D.C.L., HON.LL.D., F.B.A. English History (*in part*); Hundred Years' War; Mohammedan Campaigns; Swiss Wars.
ONIONS, C. T., M.A. Gloss and Glossary (*in part*).
ONYON, ENGINEER-CAPTAIN WILLIAM, R.N., M.V.O., M.INST.C.E. Boilers (*in part*).
ORCUTT, WILLIAM DANA, A.B. Book-collecting (*in part*).
O'REILLY, MISS M. Scandinavian Civilization (*in part*).
ORMEROD, ROBERT M. Belting (*in part*).
ORMSBY, MRS. HILDA, B.Sc. London (*in part*).
ORR, MAJOR SIR CHARLES W. J., K.C.M.G. Cyprus (*in part*).
ORTON, J. H., D.Sc. Oyster.
ORTON, WILLIAM A. Tropical Agriculture.
ORWIN, CHARLES STEWART, M.A.
Farm Management (*in part*); Farm Organization and Equipment.
OSBORN, E. B. Boxing (*in part*); Short Story (*in part*).
OSBORNE, J. H. Fire Engines (*in part*); Fire Escapes (*in part*).
OSGOOD, HERBERT LEVI, A.M., PH.D.
United States of America (*in part*).
OSTLE, MISS M. G. Kindergarten (*in part*).
OSWALD, JOHN CLYDE. Printing (*in part*); Teletypesetter.
OVERSTRAETEN, MAJOR R. van, D.S.O. Antwerp, Siege of; Belgium, Invasion of; Yser, Battle of the (*in part*).
OVERTON, A. E., M.C., B.A. Trade: World Statistics.
OWEN, CAPTAIN B. J., M.A., M.ENG., D.Sc.
Agricultural Machinery and Implements, Farm Machinery, Harvesting Machinery, Sheep Shearing Machines, etc. (*in part*).
OWEN, EDMUND, F.R.C.S., LL.D., D.Sc.
Fistula; Varicose Veins; Venereal Diseases (*in part*).
OWEN, SIDNEY GEORGE. Ovid (*in part*).
OWENS, HAMILTON. Baltimore.
OWER, ERNEST. Anemometry.
OZANNE, LEON FRANCOIS.
Suez, Compagnie Universelle du Canal Maritime de.
PAGE, CHARLES MAX, D.S.O., M.C., F.R.C.S. Fractures; Surgery.
PAGET, BT. LIEUTENANT-COLONEL BERNARD CHARLES TOLVER, D.S.O., M.C. Staff, Military (*in part*).

PAGET, SIR RICHARD ARTHUR SURTEES, Hon.A.R.I.B.A., F.Inst.P. Voice Sounds.
PAGET, STEPHEN, F.R.C.S. Animals, Experiments on (*in part*).
PAINE, S. G., D.Sc. Bacteriology.
PAINE, W. WYATT, J.P., F.S.A. Circuits; Inns and Innkeepers (*in part*); Lien (*in part*); Master and Servant; Police (*in part*).
PALAT, BARTHELEMY EDMOND. Champagne, Battles in (*in part*); Frontier, Battles of the (*in part*).
PALEOLOGUE, MAURICE. Romanoff Dynasty.
PALLICCIA, GIUSEPPE MARIA. Italian Codes.
PALMER, E. W. Bookbinding (*in part*).
PALMER, HOWARD, B.A., LL.B., F.R.G.S. Mountaineering (*in part*); Rocky Mountains, The.
PALMER, JOHN. Lenormand, Henri-René; Molière.
PALMER, MRS. WINTHROP B. Junior League of America, The Association of.
PAOLI, CESARE. Siena (*in part*).
PARES, SIR BERNARD, K.B.E. Panslavism.
PARISH, WILLIAM F. Friction; Lubricants; Lubrication.
PARK, MARION E., A.B., Ph.D. Bryn Mawr College.
PARKER, RT. HON. CHARLES STUART, LL.D., D.C.L. Peel, Sir Robert.
PARKER, EDWARD C., B.S. Hay (*in part*).
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PARKER, GEORGE H. Comparative Nervous System; Smell and Taste.
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PARKER-SMITH, A., M.E., LL.B. Patents (*in part*).
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PARMER, R., A.B., LL.B. Laws Relating to Seamen (*in part*).
PARRINGTON, VERNON LOUIS, A.M. American Literature (*in part*); Hawthorne, Nathaniel.
PARS, L. A., M.A. Dynamics.
PARSON, H. T. Woolworth Co., F. W.
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PARSONS, FLOYD W., E.M. Physical Resources (*in part*).
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PARTINGTON, JAMES RIDDICK, M.B.E., D.Sc. Atmosphere; Nitrogen.
PASSANT, E. J., M.A. Government.
PASTOR, A. R., Ph.D., B.Litt. Spanish Language and Literature (*in part*).
PASTOR, LUDVIG von. Papacy (*in part*).
PATERSON, CLIFFORD C., O.B.E., M.Inst.C.E., M.Inst.E.E., F.Inst.P. Electric Lamps and Valves, Manufacture of.
PATERSON, REV. JAMES ALEXANDER, M.A., D.D. Numbers (*in part*).
PATON, REV. W. Missions.
PATRICK, MASON MATTHEWS. Air Forces (*in part*).
PATTEE, F. L., M.A., Litt.D. Short Story (*in part*).
PATTERSON, STUART H., C.P.A. Banking and Credit (*in part*).
PATTERSON, WOODFORD, B.A. Cornell University.
PATTIE, FRANK A., M.A., Ph.D. Basilar Membrane.
PATTISON, REV. MARK, LL.D. Erasmus (*in part*); Grotius (*in part*); Macaulay (*in part*).
PATTON, C. L. Pinocle.
PAUES, ANNA C., Ph.D. Bible, English (*in part*).
PAULDING, CHARLES COOK, A.B. New York Central Lines.
PAULL, WALLACE H. Tyre.
PAXSON, FREDERICK LOGAN, Ph.D., A.M., B.S. American Frontier; Middle West, The.
PAYNE, JOSEPH FRANK, M.D., F.R.C.P. Plague (*in part*).
PEAKE, ARTHUR SAMUEL, M.A., D.D. Bible (*in part*).
PEAKE, H. J. E., M.A., F.S.A. Archaeology (*in part*).
PEARL, RAYMOND, Ph.D., Sc.D., LL.D. Death, Biological Aspects of.
PEARMAN, J. B. Bowls (*in part*); Coasting (*in part*); Wrestling (*in part*).
PEARSON, E. J., B.S. in C.E. New York, New Haven and Hartford Railroad Company, The
PEARSON, F. A., Ph.D. Agriculture: A General Survey (*in part*).
PEARSON, MISS H. S. Artiodactyla; Pecora.
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PEELE, ROBERT. Blasting; Boring; Shaft-Sinking.
PEET, T. ERIC. Calendar (*in part*).
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PEISSI, PIERRE. Forges, Comité des.
PELHAM, HENRY FRANCIS. Augustus; Nerva Marcus Cocceius (*in part*); Rome (*in part*).
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PENDEREL-BRODHURST, JAMES. Bed (*in part*); Cabinet; Chair; Clocks (*in part*); Desk; Pawnbroking.
PENDLETON, ELLEN F., A.M., Litt.D., LL.D. Wellesley College.
PENNELL, ELIZABETH ROBINS. Lithography (*in part*).
PENSON, LILLIAN M., B.A., Ph.D. Colony.
PENZER, NORMAN MOSLEY, M.A., F.R.G.S., F.G.S. Manganese, Nickel, Tin, and Zinc, *in part.*
PERCIVAL, JOHN, M.A., Sc.D. Barley (*in part*); Wheat (*in part*).
PERKIN, ARTHUR GEORGE, D.Sc., F.I.C., F.R.S.E., F.R.S. Dyes, Natural; Fustic; Indigo; Lac Dye; Persian Berries; Quercitron Bark; etc.
PERKINS, CHARLES A. Third Degree.
PERKS, SIR ROBERT WILLIAM. Methodism (*in part*).
PERRIN, JEAN. Brownian Movement.
PERROTT, GEORGE ST. JOHN, M.A. Explosives (*in part*).
PERRY, JANET. Spanish Language and Literature (*in part*).
PERRY-KEENE, A. Austin Motor Company.
PERSHING, GENERAL JOHN JOSEPH, G.C.B. Meuse-Argonne Operation; St. Mihiel (*in part*); United States of America (*in part*).
PERSONS, WARREN M., B.S., Ph.D. Trade Forecasts.
PETRIE, SIR WILLIAM M. FLINDERS, D.C.L., Litt.D., Ph.D., LL.D., F.B.A., F.R.S. Measures and Weights, Ancient; Pyramid; Sequence Dating.
PEW, MARLEN EDWIN. Associated Press; News Agency (*in part*); Reporting (*in part*); United Press Associations; etc.
PFEIFFER, GEORGE A. Polygons; Solids, Geometric.
PFISTER, CHRISTIAN, D-ès-L. Germanic Laws, Early (*in part*); Salic Law (*in part*); etc.; Charibert; Clovis; Dagobert I.; Gregory of Tours and other Frankish biographies.
PHELPS, H. W. American Can Company, The.
PHELPS, WILLIAM LYON, Litt.D., D.D., LL.D. Cooper, James Fenimore.
PHILBRICK, FRANCIS S., B.Sc., LL.B., Ph.D. Declaration of Independence; American Law (*in part*); Hamilton; Jefferson.
PHILBY, HARRY ST. JOHN BRIDGER, C.I.E., F.R.G.S., I.C.S. (retired). Arabia (*in part*); Trans-Jordan; etc.; Bell, Gertrude; Ibn Sa'ud; etc.
PHILIP, JAMES CHARLES. Charcoal.
PHILLIMORE, GEORGE GRENVILLE, M.A., B.C.L. Burial (*part*).
PHILLIMORE, THE RT. HON. LORD, G.B.E., D.C.L., LL.D. Admiralty, High Court of; Admiralty Jurisdiction (*in part*); Advowson; Judge-Advocate of the Fleet.
PHILLIPS, CATHERINE BEATRICE, B.A. Marie Antoinette.

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PHILLIPS, E. F., A.B., PH.D. Bee-keeping (*in part*).
PHILLIPS, REV. THEODORE EVELYN REECE, M.A., F.R.A.S., F.R.MET.S. Jupiter; Mercury; Neptune (*in part*); Saturn; Venus.
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PHILPOTTS, BERTHA SURTEES, O.B.E., LITT.D. Norway (*in part*).
PHIPSON, SYDNEY L., M.A. Evidence (*in part*); Witness (*in part*).
PICCIRILLI, ATTILIO. Sculpture Technique (*in part*).
PICKELS, G. W., B.C.E., C.E. Drainage of Land.
PICKERING, B.M., M.A. Joel.
PIERCE, ANDREW G. American Woolen Company, The.
PIETERS, ADRIAN JOHN, B.S., PH.D. Clover (*in part*); Seed Trade (*in part*).
PILE, SEYMOUR, M.A. Brass; Brass Manufacture.
PINCHART, RENE. Fencing (*in part*).
PINTNER, RUDOLF, M.A., PH.D. Examinations (*in part*).
PIPER, EDGAR B., A.B., LL.D. Oregon.
PIRENNE, HENRI. Belgium (*in part*).
PIRENNE, JACQUES. Belgium (*in part*).
PIRTLE, T. R. Milk (*in part*).
PITT, PERCY. Broadcast Music (*in part*).
PITT, COLONEL R. B., M.C., M.I.C.E., M.I.M.E. Crane.
PLATT, JOHN ISAAC, M. Sc., F.G.S. Alps; Apennines; Caucasus (*in part*); etc.; Liverpool (*in part*); Manchester (*in part*); etc.
PLATT, RAYE R., A.B. Andes; Orinoco; Patagonia; South America (*in part*).
PLEHN, CARL C., A.B., LL.D., PH.D. Taxation, Local (*in part*).
PLUMMER, REV. CHARLES, M.A. Alfred (the Great); Bede.
PLUNKETT, THE RT. HON. SIR HORACE, K.C.V.O., D.C.L., F.R.S. Ireland (*in part*).
POCOCK, REGINALD INNES, F.L.S., F.Z.S., F.R.A.I., F.R.S. Arachnida; Carnivora (*in part*); Edentata; Fox; Tardigrada; etc.
PODMORE, FRANK, M.A. Automatic Writing.
POETE, (CESAR) MARCEL. Paris (*in part*).
POFFENBERGER, ALBERT T., PH.D., D.Sc. Advertising (*in part*); Applied Psychology.
POLE, SIR FELIX JOHN CLEWETT. Great Western Railway Company.
POLLARD, ALBERT FREDERICK, M.A., F.B.A. Coverdale, Miles; English History (*in part*).
POLLARD, ALFRED WILLIAM, C.B., F.B.A., M.A., D.LITT. Bibliography; Books (*in part*); Book-Collecting (*in part*); Chaucer; Colophon; Incunabula; Polyglott.
POLLARD, SAMUEL, M.A. Aggregates, Theory of.
POLLITT, JAMES LANCASTER. Carpet Sweeper.
POLLOCK, RT. HON. SIR FREDERICK, K.C., LL.D., D.C.L. Contract (*in part*); Tort.
POLLOCK, HUGH McDOWELL, P.C., J.P., D.L. Ireland, Northern (*in part*).
POLLOCK, WALTER HERRIES, M.A. Musset, Alfred de (*in part*).
POMEROY, L. H., M.I.MECH.E., M.I.A.E. Motor Car (*in part*).
PONSONBY, GILBERT JOCELYN, B.A. Railways (*in part*).
POOL, REGINALD LANE, M.A., PH.D., LL.D., F.B.A. Wycliffe, John (*in part*).
POOLE, AUSTIN L., M.A. Tours (*in part*).
POOLE, MRS. N. A. School and Curriculum (*in part*).
POOLE, REGINALD STUART. Egypt (*in part*).
POPHAM, ALFRED E., B.A. Aquatint; Etching (*in part*); Line Engraving.
POPOVITCH, SAVA. Russian Art.
PORTEOUS, G. C. Casual Labour (*in part*).
PORTER, ALFRED WILLIAM, D.Sc., F.R.S. Diffuson (*in part*); Physical Units (*in part*); Surface Tension; Thermodynamics (*in part*); Units, Dimensions of.
PORTER, HORACE C., A.B., M.S., PH.D. Coke, Coking and High Temperature Carbonization (*in part*).
POSPISIL, VILEM. Czechoslovakia (*in part*).
POSTGATE, JOHN PERCIVAL, M.A., LITT.D., F.B.A. Juvenal (*in part*); Latin Literature (*in part*); Phaedrus (*in part*); Propertius, Sextus; Textual Criticism; etc.
POSTGATE, RAYMOND WILLIAM. Bakunin; Flourens, Gustav; Hunt, Henry; Wilkes, John; etc.; Chartism; Christian Socialism; Direct Action; Sabotage; etc.
POTTER, GEORGE RICHARD, M.A., PH.D. Cambridge University (*in part*).
POUCHER, WILLIAM A., PH.C. Cosmetics (*in part*); Perfumes.
POULTON, EDWARD BAGNALL, M.A., D.Sc., LL.D., F.R.S. Darwin, Charles Robert; Mimicry.
POUND, LOUISE, A.M., PH.D. Ballad (*in part*); English Language (*in part*).
POUND, ROSCOE, A.M., PH.D., LL.D. Legal Education (*in part*); Women, Legal Position of (*in part*).
POUPARDIN, RENE, D-ès-L. Arles; Burgundy; Franche-Comté; Lorraine; Philip the Bold (*in part*); Provence (*in part*).
POWELL, E. H. Sears, Roebuck and Company.
POWELL, FREDERICK YORK, D.C.L., LL.D. Icelandic Literature (*in part*).
POWELL, THOMAS REED, PH.D., LL.D. Constitution and Constitutional Law (*in part*).
POWICKE, FREDERICK MAURICE, M.A., LITT.D., F.B.A. Middle Ages, The.
PRATT, ARTHUR D., B.A. Boilers (*in part*).
PRATT, DAVID D., M.A., PH.D. Coal Tar; Creosote; Tars, Low Temperature.
PRAY, CARL, B.L., M.A. Argentina (*in part*).
PRENDERGAST, J. S. Galen.
PRESTAGE, EDGAR, M.A., D.LITT. Garrett (*in part*); Goes (*in part*); Herculano de Carvalho (*in part*); Lopes, Fernao (*in part*); etc.; Portuguese Literature (*in part*).
PRIBRAM, ALFRED FRANCIS, PH.D. Aehrenthal; Austria-Hungary (*in part*); Berchtold; Renner, Karl.
PRICE, JAMES FREDERICK GEORGE, C.B. Dole (*in part*); Unemployment Insurance (*in part*).
PRICE, WALTER V., M.S., PH.D. Cheese (*in part*).
PRIEBSCH, ROBERT, PH.D. German Language.
PRIEST, ALAN R. Seals (*in part*); Theatre (*in part*).
PRIESTLEY, JOHN BOYNTON, M.A. English Literature (*in part*).
PRINCE, HARRY, B.A. Hotel (*in part*).
PRINCE, JOHN DYNELY, PH.D. Chaldaea.
PRINET, LEON JACQUES MAXIME. Bar, Counts and Dukes of; Beauharnais; St. Pol, Counts of; etc.
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PRINGLE, HENRY F., A.B. Smith, Alfred Emanuel.
PRINGLE-PATTISON, ANDREW SETH, M.A., LL.D., D.C.L., F.B.A. Mysticism (*in part*); Scepticism (*in part*); Theosophy; Weber's Law; etc.
PRIOR, E. S., A.R.A., M.A., F.S.A. Fine Arts.
PRIOR, GEORGE THURLAND, D.Sc., F.G.S., F.R.S. Meteorite.
PROBERT, CAPTAIN G. O. C., R.A. Sights (*in part*).
PROUDMAN, JOSEPH, M.A., D.Sc., F.R.S. Tides.
PRYOR, JAMES C. Medical Service, Navy (*in part*).
PRZIBRAM, HANS. Grafting in Animals; Heteromorphosis; Regeneration in Animals.
PUCCI, MONSIGNOR ENRICO. Vatican, The.
PULLEN, E. V., D.Sc. X-Rays, Nature of (*in part*).
PURDOM, CHARLES BENJAMIN. Garden Cities.
PUTNAM, GEORGE HAVEN, A.M., LITT.D. Copyright (*in part*).
PUTNAM, GEORGE R. Lighthouses (*in part*).
PYCRAFT, W. P. Archaeopteryx; Egg; Feather; Hibernation; Nest; Odontornithes; etc.
PYE, D. R., M.A. Aero Engines (*in part*).
PYEATT, JOHN SAMUEL. Denver and Rio Grande Western Railroad.
PYE-SMITH, PHILIP HENRY, M.S., F.R.S. Harvey, William (*in part*).
QUAINTANCE, A. L., D.Sc. Vine (*in part*).
QUAYLE, PHILIP, B.S. Spark Photography.
QUICK, REV. ROBERT HERBERT, M.A. Froebel, Friedrich Wilhelm August (*in part*).

QUIGGIN, MRS. A. H., M.A. Agriculture, Primitive; Basketry (*in part*); Hunting and Fishing, Primitive; Transport (*in part*); etc.

QUIGGIN, EDMUND CROSBY, M.A. Irish Literature (*in part*); Patrick, St. (*in part*); Scottish Literature (*in part*).

QUIGLEY, HUGH, M.A. Electrical Power, National and Regional Schemes (*in part*); Allgemeine Elektrizitäts Gesellschaft; etc.

QUILLER-COUCH, SIR ARTHUR THOMAS, J.P., M.A., LL.D., F.R.S.L. Brown, Thomas Edward.

RACKHAM, BERNARD, M.A. Potteries and Porcelains (*in part*).

RADCLIFFE, LEWIS, A.B., M.S.
Fisheries, Law of (*in part*); Physical Resources (*in part*).

RADHAKRISHNAN, S., M.A. Indian Philosophy.

RADICE, MRS. SHEILA. School and the Home.

RAIT, R. S., C.B.E.
Casket Letters; Mary Queen of Scots (*in part*); Scotland (*in part*).

RAMSAY, SIR WILLIAM MITCHELL, LL.D., LITT.D., D.D., HON. D.C.L. Smyrna (*in part*).

RAMSAYE, TERRY. Motion Pictures (*in part*).

RAMSBOTTOM, J., O.B.E., M.A. Truffle.

RAMSEY, FRANK PLUMPTON, M.A.
Mathematics, Foundations of; Russell, Bertrand (*in part*).

RAND, N. DWIGHT. Explosives (*in part*).

RANDALL-MacIVER, DAVID, M.A., D.Sc., F.S.A.
Apulia (*in part*); Comacines; Etruscans; Sicily (*in part*); Villanovans.

RANNEY, GEORGE A. International Harvester Company, The.

RANSOME, ARTHUR. Trotsky, Lev Davidovich.

RAPPARD, W. E. Switzerland (*in part*).

RASCHE, WILLIAM F., B.Sc., M.A., PH.D. Commercial Education (*in part*); Education and Industry (*in part*); etc.

RASTALL, ROBERT HERON, SC.D., F.G.S., M.INST.M.M.
Dolerite; Geology; Gypsum; Quartz; etc.

RATCLIFFE, REV. E. C., M.A. Eucharist (*in part*).

RATHBONE, ELEANOR, M.A. Family Allowances; Fawcett, Dame.

RATNER, WILLIAM. Cycling (*in part*).

RAVEN, H. C. Kangaroo.

RAVENSTEIN, ERNEST GEORGE, M.A., PH.D. Map (*in part*).

RAWLE, FRANCIS, LL.B., A.M. Inheritance (*in part*).

RAWLINSON, REV. A. E. J., D.D. Gospel; Mark, Gospel of.

RAY, SIDNEY H., M.A., F.R.ANTH.S. Papuan Languages.

RAYLEIGH, JOHN WILLIAM STRUTT, 3RD BARON.
Argon (*in part*); Sky (*in part*).

RAYLEIGH, ROBERT JOHN STRUTT, LORD. Argon (*in part*).

RAYMOND, CORNELIA M., A.B. Vassar College.

RAYNER, M.C. Mycorrhiza.

READ, C. STANFORD, M.D., M.R.C.S., L.R.C.P.
Hypnotism; Hypochondriasis; Hysteria; Insanity (*in part*); Insomnia; Psychosis (*in part*); Psychotherapy.

READ, HERBERT, D.S.O., M.C. Stained Glass (*in part*).

READ, JOHN. Camphors; Chemistry (*in part*); Pyridine.

READ, THOMAS THORNTON, E.M., PH.D.
Physical Resources (*in part*).

REANEY, MABEL J., D.Sc. School and Curriculum (*in part*).

REBOUX, PAUL. Gastronomy.

REDDAWAY, WILLIAM FIDDIAN, F.R.HIST.S. Norway (*in part*).

REDDEN, WILLIAM R., A.M., M.D.
Antidotes; Bandages and Bandaging.

REDFERN, PERCY. Co-operation (*in part*).

REDINGTON, PAUL G. Game Laws (*in part*).

REDLICH, JOSEF. Austria-Hungary (*in part*).

REDMAYNE, SIR RICHARD AUGUSTINE STUDDERT, K.C.B., M.Sc., M.INST.C.E., M.I.M.E., F.G.S. Anthracite; Coal and Coal Mining (*in part*); Low-Temperature Carbonization; Peat; Pulverized Fuel; Royalty, in Mining; etc.

REDWAY, MAJOR GEORGE WILLIAM. Petersburg Campaign; Seven Days' Battle; Shenandoah Valley (*in part*).

REED, ALFRED Z., A.M., PH.D. Lawyer.

REED, C. O., B.S. Agricultural Machinery and Implements (*in part*).

REED, T. School and Curriculum (*in part*).

REES, J. F. Commerce.

REES, JOHN MORGAN, M.A. Syndicalism (*in part*).

REEVE, FRANK D., M.A. New Mexico.

REEVES, HON. WILLIAM PEMBER, PH.D.
Grey, Sir George (*in part*); New Zealand (*in part*).

REGAMEY, RAYMOND. Iron in Art (*in part*).

REGAN, CHARLES TATE, M.A., F.R.S.
Cod; Cyclostomata; Fishes; Salmon; Selachians; Shark; etc.

REGAUD, CLAUDIUS FRANCOIS. Radiumtherapy.

REID, MRS. E.M., B.Sc., F.L.S., F.G.S. Palaeobotany (*in part*).

REID, SIR GEORGE. Turner, Joseph Mallord William (*in part*).

REID, JAMES SMITH, M.A., LITT.D., LL.D.
Rutilius Claudius; Statius, Publius (*in part*).

REID, ROBERT WILLIAM, M.D., LL.D., F.R.C.S. Anatomy (*part*).

REID, WILLIAM ALFRED, LL.M.
A.B.C. Powers; Buenos Aires; Bahia; Plata, Rio de la; etc.

REIGHARD, J., PH.B. Pisciculture (*in part*).

REILEY, A. C. Typewriter.

REILLY, CHARLES HERBERT, O.B.E., M.A., F.R.I.B.A.
Delhi (*in part*); Renaissance Architecture (*in part*).

REILLY, P. J. Retailing.

REINHARDT, MAX. Theatre (*in part*).

REITELL, CHARLES, PH.D. Scientific Management (*in part*).

REITH, SIR JOHN CHARLES WALSHAM. Broadcasting (*in part*).

REMBAUGH, BERTHA, A.M., LL.B.
Arrest, Bail, Blackmail, Bribery, *in part*.

RENDLE, ALFRED BARTON, M.A., D.Sc., F.R.S.
Angiosperms (*in part*); Botany; Coffee (*in part*); Leaf (*in part*).

RENOUVIN, P. War Guilt (*in part*).

RENTON, SIR ALEXANDER WOOD, K.C., K.C.M.G., M.A., LL.B.
Arbitration (*in part*); Ejectment (*in part*); Fixtures; Inebriety (*in part*); Landlord and Tenant (*in part*); Rent; etc.

RETZER, ROBERT. Reinsurance (*in part*).

REW, SIR HENRY, K.C.B. Agricultural Economics; Agricultural Statistics; Land Tenure; Small Holdings, etc.; Cattle Breeding; Dry Farming; Drainage; etc.; Bacon; Beef; Butter; etc.

REY, CHARLES FERNAND.
Abyssinia (*in part*); Harar; Kaffa; Tana.

REYNARD, MISS H., M.A. School and Curriculum (*in part*).

REYNOLDS, ARTHUR.
Continental National Bank and Trust Company of Chicago.

REYNOLDS, T. J. Diamond Match Company.

RHEINBABEN, ROCHUS FREIHERR von. Stresemann, Gustav.

RHODES, GEORGE C. Transatlantique, Compagnie Générale.

RHYS, ERNEST. Author; Bookselling (*in part*); Publishing.

RICCI, CORRADO. Baroque Architecture.

RICE, GRANTLAND. Golf (*in part*).

RICHARDS, CHARLES RUSSEL.
Modern Tendencies in Applied Art.

RICHARDS, G. W., A.M., D.D., LITT.D., D.TH. Shakers.

RICHARDS, THEODORE WILLIAM, PH.D., LL.D., M.D., D.Sc.
Atomic Weights.

RICHARDSON, ALBERT EDWARD, F.S.A., F.R.I.B.A.
Modern Architecture (*in part*).

RICHARDSON, C. A., M.A. Pluralism.

RICHARDSON, H. G., M.A., B.Sc.
Agricultural Machinery and Implements (*in part*); Cultivating Machinery (*in part*); Harvesting Machinery (*in part*); Sheep Shearing Machines (*in part*); etc.

RICHARDSON, L. S., B.S. Agricultural Societies and Shows (*in part*); Apple (*in part*); Harvesting Machinery (*in part*); Soya Bean.

RICHARDSON, OWEN WILLANS, M.A., D.Sc., F.R.S.
Thermionics.

RICHARDSON, WILDS PRESTON.
Alaska (*in part*); Cordova; Juneau.

RICHTER, GISELA, M.A., LITT.D.
Gems in Art; Terra-Cotta (*in part*).

RICHTER, IRMA. Bouts, Dierick; Gainsborough, Thomas; Gauguin, Paul; Gogh Van; Goya y Lucientes; Picasso; Theotocopuli; etc.; Duccio de Buoninsegna; Farinato, Paolo; Ferrari, G.; Titian (*in part*) and biographies of other Italian painters.

RIDDELL, JOHN ROBERTSON.
Collotype; Colour Printing; Lithography (*in part*); Photo-Engraving; Photogravure; Printing (*in part*).

RIDEAL, ERIC KEIGHTLEY, M.B.E., D.Sc., PH.D., F.I.C.
Catalysis.

RIDGWAY, ROBERT, A.M., M.S. Tunnel.

RIPAULT, LOUIS. Herriot, Edouard.

RIPPER, WILLIAM, D.Sc., M.INST.C.E., M.I.MECH.E.
Cutlery; File Manufacture; Razor.

RISHBETH, O. H. T., M.A., F.R.G.S.
Australia (*in part*); New South Wales (*in part*); and articles on the physiography of the States of Australia.

RITCHIE, ALBERT C. Maryland.

RITCHIE, JAMES, M.A., D.Sc., F.R.S.E. Sheep (*in part*).

RITT, JOSEPH FELS, PH.D. Calculus, Differential and Integral.

RIVIERE, CLIVE, M.D., F.R.C.P. Pneumothorax.

ROBBINS, H. C. Press Association, The.

ROBERTS, JAMES ERNEST HELME, M.B., B.S., F.R.C.S.
Heart and Lung, Surgery of.

ROBERTS, R. ELLIS, B.A. Autobiography; Ibsen, Henrik Johan.

ROBERTS, SYDNEY CASTLE, M.A.
Boswell, James; Johnson, Samuel (*in part*).

ROBERTS, W. Art Sales.

ROBERTSON, MISS A. J., M.A. Anglo-Saxon Law (*in part*).

ROBERTSON, SIR CHARLES GRANT, C.V.O., M.A., HON.LL.D.
English History (*in part*); Reform Movement (*in part*).

ROBERTSON, DAVID A., A.B., LL.D. Summer Schools (*in part*).

ROBERTSON, D. H., M.A. Trade Cycle.

ROBERTSON, EDWARD, M.A.
Baalbek; Bashan; Damascus (*in part*); Dead Sea; Galilee; Joppa; Nazareth; Olives, Mount of; Samaria; etc.

ROBERTSON, HOWARD, F.R.I.B.A.
Social Architecture (*in part*).

ROBERTSON, JAMES ALEXANDER, PH.B., L.H.D.
Aliaga; Manila; Philippine Islands.

ROBERTSON, JOHN GEORGE, M.A., PH.D., HON. LITT.D.
Eulenspiegel, Till; German Literature; Goethe; Heine (*in part*); Meistersinger; Schiller; etc.

ROBERTSON, J. M.
Coleridge, Samuel Taylor; Shakespeare (*in part*).

ROBERTSON, SIR ROBERT, K.B.E., M.A., D.Sc., LL.D., F.R.S.
Alcohol in Industry (*in part*).

ROBERTSON, WILLIAM SPENCE, PH.D. Venezuela (*in part*).

ROBINSON, CHARLES EDMUND NEWTON, M.A.
Epée-de-Combat (*in part*).

ROBINSON, MAJOR-GENERAL CHARLES WALTER, C.B., D.C.L.
Salamanca (*in part*); Vitoria, Battle of.

ROBINSON, HENRY M. Los Angeles.

ROBINSON, REV. HENRY WHEELER, M.A., D.D. Canticles; Habakkuk; Holy Spirit; Hosea; Malachi; Obadiah; Psalms; etc.

ROBINSON, JAMES HARVEY, A.M., PH.D., LL.D. Civilization.

ROBINSON, LENNOX. Yeats, William Butler.

ROBINSON, MAUD. Sculpture Technique (*in part*).

ROBINSON, MISS O. J., M.Sc., N.D.A., N.D.D. Milk (*in part*).

ROBINSON, ROBERT, D.Sc., F.R.S.
Anthocyanins; Chlorophyll, Chemistry of.

ROBINSON, REAR-ADMIRAL SAMUEL S.
Midshipman (*in part*); United States Naval Academy.

ROBINSON, THEODORE H., M.A., D.D. Adam; Amos; Deborah; Deuteronomy; Exodus, The; Jeremiah; Lamentations; etc.

ROBINSON, W. A., M.A., PH.D. Negro, The American (*in part*).

ROBSON, GUY COLWIN, M.A. Amphineura; Cephalopoda; Gastropoda; Lamellibranchia; Mollusca; Scaphopoda; Species (*in part*); Variation (*in part*); etc.

ROCKWELL, WILLIAM WALKER, A.B., PH.D. Boniface.

ROCKWOOD, NATHAN CHAMBERLAIN, B.S. Aggregate.

RODD, THE RT. HON. SIR JAMES RENNELL, G.C.B., G.C.M.G., G.C.V.O., M.P. Egypt (*in part*).

RODGERS, WILLIAM L.
Farragut, Admiral; United States of America (*in part*).

ROGERS, SIR LEONARD, C.I.E., M.D., F.R.C.P., F.R.G.S., F.R.S.
Kala-Azar; Leprosy.

ROLLESTON, SIR HUMPHRY (DAVY), K.C.B., M.A., M.D., HON.D.Sc., LL.D. Diagnosis; Goitre; Longevity; Medicine, General; Therapeutics.

ROMANELLI, LIEUTENANT-COLONEL GUIDO.
Kun, Bela (*in part*).

ROMANES, JAMES, M.A., F.G.S., M.I.P.T.
Albertite; Bitumen; Ozokerite.

ROMEIN, J. M. F. Inland Water Transport; Vistula.

RONAN, REV. MYLES V., M.R.I.A.
Roman Catholic Church (*in part*).

ROOT, ELIHU, A.M., LL.D., D.C.L.
Permanent Court of International Justice.

ROPES, JAMES HARDY, D.D.
Corinthians, Epistles to the; Ephesians, Epistles to the.

ROSCOE, EDWARD STANLEY. Laws Relating to Seamen (*in part*); Sea Laws (*in part*); Wreck (*in part*).

ROSCOE, FRANK, M.A. Summer Schools (*in part*).

ROSE, CHARLES B. Fire Engines (*in part*).

ROSE, HERBERT JENNINGS, M.A. Calendar, Chronology, Greek Religion, etc., *in part*; Greek Literature, Latin Literature, *in part*; Hercules; Odysseus; Prometheus (*in part*); etc.

ROSE, HORACE ARTHUR, I.C.S.
Afridi (*in part*); Caste; India (*in part*); Sikhs.

ROSE, JOHN HOLLAND, M.A., D.LITT.
English History (*in part*); Sièyes (*in part*); Talleyrand-Périgord.

ROSE, SIR THOMAS KIRKE, D.Sc., A.R.S.M.
Amalgamation (*in part*); Gold Mining and Metallurgy; Silver: Metallurgy, Mining and Production; etc.

ROSENBAUM, SAMUEL R., LL.M., B.S.
Judicial Reform (*in part*).

ROSENHAIN, WALTER, D.Sc., F.R.S.
Metallography; Metallurgy.

ROSENHAU, MILTON J. Preventive Medicine (*in part*).

ROSENOW, EDWARD CARL, M.D., D.Sc., LL.D.
Focal Infection (*in part*).

ROSENWALD, JULIUS. Philanthropy.

ROSS, SIR EDWARD DENISON, C.I.E., PH.D., F.R.G.S., M.R.A.S., F.S.A.B. Manchu Language; Mongolian Language and Literature (*in part*); Turkish Language and Literature (*in part*); etc.

ROSS, HUGH MUNRO. Alchemy (*in part*).

ROSS, JOHN, PH.D., B.Sc., A.R.C.S., D.I.C. Quinoline.

ROSS, R. Great Britain (*in part*).

ROSS, SIR RONALD, K.C.B., K.C.M.G., M.D., D.Sc., F.R.S.
Malaria (*in part*).

ROSS, W. L. New York, Chicago and St. Louis Railroad.

ROSSE, HERMAN. Costume Design (*in part*).

ROSSETTI, WILLIAM MICHAEL. Shelley, Percy Bysshe (*in part*); Tintoretto (*in part*); Titian (*in part*); etc

ROSS-JOHNSON, D. Port Operation (*in part*).

ROST, REINHOLD, C.I.E., LL.D. Tamils (*in part*).

ROTH, CECIL, M.A., B.LITT., D.PHIL. F.R.HIST.S.
Brampton, Sir Edward; Jews (*in part*).

ROTHAFEL, SAMUEL L. Stage Design (*in part*).

ROUND, JOHN HORACE, M.A., LL.D.
Baronet; Earl; Marquess; etc.; Clare (Family) etc.; Bayeux Tapestry; Domesday Book; Scutage; Serjeanty; etc.

ROUSE, WILLIAM HENRY DENHAM, LITT.D.
Classical Education (*in part*).

ROUSSIN, LEANDER GASPARD, C.M.G. Greece (*in part*).

ROWE, A. P. Aerial Navigation.

ROWE, LEO S., PH.D., LL.D. Pan-American Union.

ROWLAND, DUNBAR, B.S., LL.D. Mississippi.

ROWNTREE, B. SEEBOHM. Poverty Line; Welfare Work.

ROWNTREE, CECIL W., M.B., B.S., F.R.C.S.
Bones, Diseases and Injuries of.

ROXBY, P. M., M.A.
Canton; China (*in part*); Chin Hills; Chungking; Formosa (*in part*); Hongkong; Manchuria (*in part*); Mongolia (*in part*).

ROY, CAMILLE, D.PH., L-ÈS-L., F.R.S.C.
Canadian Literature in French.

ROYSE, M. W., PH.D. Aerial Law (*in part*).

RUDLER, FREDERICK WILLIAM, I.S.O., F.G.S.
Cats-Eye; Celestine; Marble (*in part*).

RUDOLPH, G. R. Average.

RUGGLES-BRISE, SIR EVELYN J., K.C.B. Prison (*in part*).

RUKEYSER, MERRYLE S., B.LITT., M.A.
Company Promoting (*in part*); Investment Trusts (*in part*); etc.

RUNDLE, COMMANDER H. J. M., O.B.E., R.N.
Coast Guard (*in part*).

RUNNER, J. J., PH.D. Bad Lands.

RUPERT, F. F., A.M., PH.D. Physical Resources (*in part*).

RUSS, SIDNEY. Radiology.

RUSSELL, ALEXANDER SMITH, M.A., M.C., D.Sc.
Radium; Radon.

RUSSELL, HON. BERTRAND ARTHUR WILLIAM, M.A., F.R.S.
Relativity: Philosophical Consequences.

RUSSELL, SIR EDWARD JOHN, O.B.E., D.Sc., F.R.S.
Agricultural Research; Fertilizers (*in part*); Soil (*in part*); etc.
RUSSELL, ELBERT, PH.D. Friends, Society of (*in part*).
RUSSELL, HENRY NORRIS, PH.D., D.Sc. Stellar Evolution.
RUSSELL, THOMAS. Advertising (*in part*).
RUTHERFORD, SIR ERNEST, O.M., F.R.S. Radioactivity.
RYAN, JAMES H., S.T.D., TH.D. Parochial Schools.
RYAN, M. J., B.A., B.L. Brehon Laws (*in part*).
RYDEN, GEORGE H., M.A., PH.D. Delaware.
RYLE, JOHN ALFRED, M.D., F.R.C.P., F.R.S.M.
Pain, Significance of.
SABONADIERE, A., I.C.S. (retired). Indian Law (*in part*).
SACKS, CAPTAIN JOHN C. Fur Farming.
SADGROVE, W. HOWARD.
Furniture Manufacture (*in part*); Upholstery.
SAFFORD, ARCHIBALD. Distress.
SAFRASTIAN, A. Armenia (*in part*); Asia Minor (*in part*); Kurdistan (*in part*); Mosul (Vilayet) (*in part*).
ST. CYRES, VISCOUNT. Casuistry; Jansenism (*in part*).
ST. HELIER, THE RT. HON. LORD. Divorce (*in part*).
SAINTSBURY, GEORGE EDWARD BATEMAN, LL.D., D.LITT., F.B.A. Balzac; Gautier; Mérimée, Prosper; Romance.
SAKLATWALLA, B. D., B.Sc. Physical Resources (*in part*).
SAKURAZAWA, H. Korea, Bank of.
SALAMAN, MALCOLM CHARLES. Crayon; Glass Prints; Monotypes; Stipple and Crayon Engraving.
SALISBURY, EDWARD JAMES, D.Sc., F.L.S. Plants (*in part*).
SALMON, EDWARD, O.B.E. Brunei, Borneo, Java, Malay Archipelago, and Sumatra, *in part;* Blackwater Fever (*in part*).
SALMON, REV. STEWART DINGWELL FORDYCE, M.A., D.D. Logos (*in part*).
SALTER, SIR JAMES ARTHUR, K.C.B. Allied Maritime Transport Council; League of Nations (*in part*); War Control of Shipping.
SALTER, WILLIAM HENRY, M.B.E., M.A., LL.B.
Psychical Research.
SALZMAN, L. F., M.A., F.S.A.
Aucassin and Nicolette; Bestiary; Minstrel.
SAMPSON, GEORGE, HON. M.A.
Biography (*in part*); School Libraries (*in part*).
SAMPSON, RALPH A., M.A., D.Sc., F.R.S.
Chronograph; Time Measurement.
SANCTIS, GAETANO de. Hannibal.
SANDERS, WALTER C. Bearings (*in part*); Railways (*in part*).
SANDYS, JOHN EDWIN, M.A., LITT.D., LL.D., F.B.A.
Pausanias (*in part*).
SANGER, CHARLES PERCY. Russell, Bertrand (*in part*).
SANGER, SOPHY. Labour Law (*in part*).
SANKEY, RT. HON. SIR JOHN (MR. JUSTICE SANKEY), G.B.E.
Criminal Appeal, Court of.
SAPIR, E., A.M., PH.D. Central and North American Languages.
SAPP, ARTHUR HENRY, A.B., LL.B. Rotary Club (*in part*).
SARGENT, FREDERICK W., LL.B.
Chicago and North Western Railway Company.
SARGENT, JOHN GARIBALDI, A.M., LL.D.
Attorney-General (*in part*).
SAURAT, D. Drama (*in part*); French Literature (*in part*).
SAUVAGEOT, AURELIEN. Ural-Altaic Languages.
SAVAGE, HARLOW DOW. Dry Quenching.
SAVAGE, HOWARD JAMES, A.M., PH.D. Athletic Sports (*in part*).
SAXE, ELEANOR B., A.M. Fan.
SAXTON, W. T., M.A. Gymnosperms.
SAYCE, REV. ARCHIBALD HENRY, D.LITT., LL.D., D.D.
Assur-Bani-Pal; Babylonia and Assyria (*in part*); Persepolis (*in part*); Sardanapalus; Sennacherib; etc.
SAYCE, R. U., M.A. Cape Colony (*in part*); Orange Free State, Rhodesia, Transvaal, etc., *in part;* South Africa, Union of (*in part*); Cape Town, Durban, Harrismith, etc.
SAYRE, MONELL. Pensions: The United States (*in part*).
SCAMMELL, J. M., A.B. Daras; National Guard.
SCANDRETT, HENRY A., B.L., LL.B.
Chicago, Milwaukee, St. Paul and Pacific Railroad Company.
SCARBOROUGH, DOROTHY, A.M., LITT.D., PH.D.
Negro, The American (*in part*).
SCHADE, JAMES W., A.B.
Rubber: Production and Manufacture.
SCHAPERA, ISRAEL. Africa (*in part*); Bushman Languages; Chiefs; Dual Organization; Gerontocracy; Hottentots (*in part*).
SCHILLER, FERDINAND CANNING SCOTT, M.A., D.Sc., F.B.A.
Pragmatism.
SCHLESINGER, KATHLEEN.
Crowd; Organ (*in part*); Pianoforte (*in part*).
SCHLINK, F. J. Standardization (*in part*).
SCHMIDT, P. WILHELM, S.V.D. Numeral Systems.
SCHMIDT, REV. PATER WILHELM, D.TH., S.V.D.
Australian Languages.
SCHMIDT, ROBERT. Glass (*in part*).
SCHNEIDER, HENRY C., M.E.
Windmills and Wind Power (*in part*).
SCHOLEFIELD, F., M.Sc.
Cloth Finishing; Cotton and the Cotton Industry (*in part*).
SCHOLES, PERCY ALFRED, B.MUS., A.R.C.M.
Scriabin, Alexander Nicholaevich.
SCHOTT, G. Atlantic Ocean; Black Sea; Mediterranean Sea (*in part*); North Sea.
SCHURER, EMIL, D.PH. Philo (*in part*).
SCOTT, A. Lloyd's Register of Shipping.
SCOTT, REV. CHARLES ANDERSON, M.A., D.D.
Jesus Christ (*in part*); Ulfilas (*in part*).
SCOTT, CHARLES F., A.M., Sc.D., ENG.D.
Engineering Education (*in part*).
SCOTT, HENRY HAROLD, M.D., M.R.C.S., L.R.C.P., D.P.H., F.R.S.E. Sprue.
SCOTT, HUGH ARTHUR.
Concert; Extemporization; Leitmotiv; Tschaikovsky.
SCOTT, J. W., M.A., D.PH. Neo-Hegelianism.
SCOTT, RT. HON. SIR LESLIE FREDERIC, K.C., M.A.
Broker; Factor (*in part*).
SCOTT, ROBERT, M.B., CH.B. Medical Legislation (*in part*).
SCOTT, SIR ROBERT RUSSELL, K.C.B. Civil Service (*in part*).
SCOTT, WALTER. Plumbing.
SCRIMGEOUR, JOHN STUART, O.B.E.
Betting Tax; Entertainments Duty; Increment Value Duty.
SCROGGS, WILLIAM OSCAR, PH.D. Walker, William.
SCUDDER, HORACE ELISHA.
Lowell, James Russell; Stowe, Harriet Elizabeth (Beecher).
SEARES, F. H., B.S. Photography, Celestial (*in part*).
SEARS, JOHN EDWARD, C.B.E., M.A., M.I.MECH.E., A.M.INST.C.E., F.INST.P. Metrology; Precision Gauges and Comparators.
SECCOMBE, THOMAS, M.A. English Literature (*in part*); Gilbert, Sir W. S.; also Johnson, Samuel; Marlowe, Christopher; etc., *in part.*
SEDIVY, KAREL. Czechoslovakia (*in part*).
SEE, HENRY. Anne of Brittany.
SEGAL, LOUIS, M.A., PH.D. Soviet Trade Organizations.
SEIGNOBOS, C., D-ÈS-L.
Europe (*in part*); Reform Movement (*in part*).
SELIGMAN, CHARLES GABRIEL, M.D., F.R.C.P., F.R.S.
Africa (*in part*); Anthropology, Applied; Arabs; Bari-speaking Tribes; Nilotes; etc.
SELIGMAN, RICHARD, A.C.G.I.
Aluminium; Aluminium Bronze; Duralumin.
SELLAR, WILLIAM YOUNG, LL.D. Juvenal (*in part*); Latin Literature (*in part*); Lucilius, Gaius (*in part*); Virgil (*in part*).
SELLS, DOROTHY M., M.A., PH.D. Trade Board (*in part*).
SELVER, PAUL. Drama (*in part*).
SERRIGNY, GENERAL BERNARD. France (*in part*).
SETH-SMITH, DAVID, F.Z.S., M.B.O.U. Aviary.
SETON-KARR, SIR HENRY, C.M.G. Gun.
SETON-WATSON, ROBERT WILLIAM, LITT.D.
Bosnia and Hercegovina; Dalmatia; Montenegro; Peter I.; Serbia (*in part*); Yugoslavia (*in part*); etc.
SEWARD, A. C., M.A., Sc.D., F.R.S.
Palaeobotany (*in part*).
SEYMOUR, CHARLES, PH.D., LITT. D., LL.D.
Coolidge, President; Harding, President, House, Edward Mandell; Lodge, Henry Cabot; Washington Conference; Wilson, President.
SEYMOUR, CHARLES J. Dress Manufacturing.
SHADWELL, ARTHUR, M.A., M.D., LL.D., F.R.C.P.
Plague (*in part*); Prostitution; Temperance.

SHAKESPEARE, W., F.R.A.M. Singing.
SHANAHAN, WILLIAM T., M.D. Epilepsy.
SHAND, ALEXANDER FAULKNER. Character.
SHANKS, WILLIAM. Porcelain Enamelling.
SHANTZ, H. L., PH.D., D.Sc.
Physical Resources (*in part*).
SHAPLEY, H., A.M., LL.D., PH.D. Star Cluster.
SHARP, DOROTHEA E., PH.D.
Bacon, Roger; Bonaventura, Saint; Duns Scotus, John.
SHARP, WILLIAM. Thoreau, Henry David (*in part*).
SHATTOCK, REV. E. A., M.A., B.LITT., F.R.A.I.
Morality, Primitive.
SHAW, C. Deaf and Dumb, Education and Welfare of the.
SHAW, CHARLES GRAY, PH.D. Housing (*in part*).
SHAW, GEOFFREY. School and Curriculum (*in part*).
SHAW, GEORGE BERNARD. Socialism: Principles and Outlook.
SHAW, H., M.Sc. Gravitation.
SHAW, JAMES B. Linear Algebras.
SHAW, WILFRED B. Michigan, University of.
SHAW OF DUNFERMLINE, THE RT. HON. LORD, K.C., M.A., LL.B., D.C. Privy Council, Judicial Committee of the.
SHEAR, CORNELIUS L., PH.D. Vine (*in part*).
SHEARMAN, THOMAS G. George, Henry.
SHEBBEARE, REV. CHARLES JOHN, M.A.
Atheism; Pantheism (*in part*); Trinity.
SHEE, GEORGE F., M.A.
Life-Boat and Live-Saving Service (*in part*).
SHELDON, ADDISON ERWIN, A.M., PH.D. Nebraska.
SHELLEY, A. N. C., M.A., B.C.L.
Fair (*in part*); Government Departments (*in part*).
SHEPARD, E. V., S.B.
All Fours; Auction Pitch; Casino; Rummy (*in part*); Skat (*part*).
SHEPARD, FRANCIS H. Locomotive (*in part*).
SHEPARDSON, FRANCIS WAYLAND, PH.D., LL.D.
Fraternities, College.
SHEPPARD, CAPTAIN E. W., O.B.E., M.C.
Crimean War (*in part*); Frontier, Battles of the (*in part*).
SHEPPARD, S. E. Photochemistry.
SHEPPARD, WILLIAM FLEETWOOD, M.A., Sc.D., LL.M.
Calculus of Differences; Mensuration; Probability and Error; etc.
SHERINGHAM, HUGH TEMPEST. Angling (*in part*).
SHERMAN, MARY. Women's Clubs, The General Federation of.
SHERMAN, ORRIN G. Early Closing Movement (*in part*); Employee Stock Ownership; Employment Exchange (*in part*); etc.
SHERRINGTON, CHARLES ELY ROSE. Railways (*in part*).
SHERRINGTON, SIR CHARLES SCOTT, O.M., G.B.E., M.A., M.D., D.Sc., F.R.C.P., F.R.S. Brain (*in part*); Spinal Cord (*in part*); Sympathetic System.
SHERWELL, ARTHUR. Disinterested Management; "Gothenburg" Licensing System; Licensed Victualler.
SHERWOOD, FREDERICK WILLIAM, B.A.
Blackstone, Sir William.
SHIELDS, MATTHEW J., M.D. First Aid to the Injured.
SHKLOVSKY, I. W. Andreyev, Leonid Nicolaievich.
SHOREY, EDMUND C., A.M., D.Sc. Liming (*in part*).
SHOTWELL, JAMES THOMSON, PH.D., LL.D. Boniface, Saint; Golden Rose (*in part*); History; Louis IX. (*in part*).
SHOWERMAN, GRANT, PH.D. Attis; Syncretism.
SIBREE, REV. JAMES, D.D., F.R.G.S. Madagascar (*in part*).
SIDEBOTHOM, HERBERT. Fisher, John Arbuthnot (*in part*).
SIDGWICK, ARTHUR, M.A., LL.D. Aeschylus.
SIDGWICK, HENRY, LL.D. Ethics, History of (*in part*).
SIDGWICK, N. VINCENT, O.B.E., M.A., F.R.S. Valency.
SIEBERT, WILLIAM H. Hardware (*in part*).
SIEGBAHN, MANNE. Spectroscopy.
SIKES, ERNEST EDWARD, M.A. Hera (*in part*).
SILBERSCHMIDT, MAX, PH.D.
Switzerland (*in part*); Zürich (*in part*).
SILBERSTEIN, LUDWICK, PH.D. Tensor Analysis.
SILBURN, JUDITH ANN.
Cereals (*in part*); Egg Cookery; Fruit Cookery; Gravies; etc.
SILLS, KENNETH CHARLES MORTON, M.A., LL.D. Maine.
SILLS, MILTON. Motion Pictures (*in part*).
SIME, J., M.A. Frederick II. (*in part*).
SIMMONS, E. H. H. Stock Exchange or Bourse (*in part*).
SIMMONS, HARVEY ALEXANDER, M.S., PH.D.
Diophantine Equations.
SIMON, ANDRE L.
Burgundy Wines; Champagne Wines; Graves, Wines of; Hock; Moselle Wines, Sauternes; Wine; etc.
SIMON, F. Rathenau, Walther.
SIMON, ROBERT E. Parental Education.
SIMONSOHN, A. Darmstädter und Nationalbank.
SIMONSON, LEE, A.B. Stage Design (*in part*).
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Achiacharus; Proverbs, Book of; Wisdom, Book of; etc.
SIMPSON, GEORGE GAYLORD, PH.D.
Hyracoidea; Multituberculata; Tillodontia.
SIMPSON, J. J., M.A., D.Sc. Museums of Science (*in part*).
SIMPSON, PERCY, M.A. Shakespeare (*in part*).
SINCLAIR, J. H., B.A., M.Sc. Ecuador (*in part*).
SINGER, CHARLES, M.D., D.LITT., F.R.C.P., F.S.A.
Bacon, Francis; Biology, History of; Medicine, History of; etc.
SIREN, OSWALD. Chinese Architecture; Chinese Sculpture.
SIRRINE, EMMA F., M.S. Seed Testing (*in part*).
SISSON, F. H., A.B., LL.D. Trust Company.
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Layamon (*in part*).
SKEVINGTON, F., M.B.E. Pensions: Civil Service, Municipal, etc.
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Lighting and Artificial Illumination (*in part*).
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SKINNER, OTIS, A.M. Make-Up.
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SLOAN, MATTHEW SCOTT, M.S.
Electricity Supply: Commercial Aspects.
SLOANE, WILLIAM MILLIGAN, PH.D., LL.D.
Bancroft, George.
SLOCUM, ROBERT R., B.S. Eggs (*in part*).
SLOMAN, H. A., M.A., B.Sc., A.I.C. Beryllium (*in part*).
SLOSSON, E. E., PH.D., D.Sc., LITT.D. Edison, Thomas Alva.
SMART, W. M., M.A., D.Sc., F.R.A.S.
Celestial Mechanics; Orbit.
SMIRNOFF, ALEXANDER. Italian Wars; Russo-Turkish Wars.
SMITH, A. D. BUCHANAN, M.A., M.S.A., B.Sc. Goat.
SMITH, ALFRED E. New York (State).
SMITH, ARTHUR HAMILTON, C.B., M.A., F.S.A., F.B.A.
King (*in part*).
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Permian; Triassic System.
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Matthew, St.; Matthew, Gospel of St.
SMITH, C. A., M.A. Wisconsin, University of.
SMITH, CLIFFORD P., LL.B., C.S.B.
Christian Science; Eddy, Mary Baker.
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Algebra; Arithmetic; Finger Numerals; Fraction; Mathematics, History of; etc.
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Horse-Racing and Breeding (*in part*); Steeplechasing.
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Chronicles, Books of (*in part*); David (*in part*); Haggai (*in part*); Judges, The Book of (*in part*); Nabataeans (*in part*); etc.
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SMITHELLS, ARTHUR, C.M.G., D.Sc., F.R.S. Flame.
SMOOT, REED. Mormonism; Mormons or Latter-Day Saints.
SMUTS, GENERAL JAN C., P.C., K.C., M.L.A. Holism.
SMYTHE, A. R., F.R.C.V.S., D.V.S.M.
Abortion, Contagious; Rinderpest; Swine Fever; etc.
SMYTHE, RICHARD HAVILAND, A.B., B.ARCH.
Shop Front Design (*in part*).
SNEDDAN, DONALD, A.M., PH.D.
Continuation Schools (*in part*).
SNOW, HERBERT MARTIN, M.V.O.
Wagons-Lits, Compagnie Internationale des.
SNOW, WILLIAM FREEMAN, M.A., M.D.
Venereal Diseases (*in part*).
SNYDER, MORTON, A.B.
Progressive Education Movement, The.
SNYDER, VIRGIL. Line Geometry.
SOMERVELL, DAVID CHURCHILL, M.A.
English History (*in part*); Victoria.
SONNECK, O. G. Foster, Stephen Collins.
SOPER, GEORGE A., B.S., M.A., PH.D. Cancer (*in part*).
SORLEY, WILLIAM RITCHIE, M.A., LITT.D., LL.D.
Leibnitz, Gottfried Wilhelm (*in part*).
SOUTHWELL, RICHARD VYNNE, M.A., F.R.S.
Materials, Strength of; Mechanics.
SOWERWINE, E. O. Anaconda Copper Mining Company.
SPAHR, WALTER E., M.A., PH.D. Stockbroker (*in part*).
SPAIGHT, J. M., C.B.E., LL.D. Aerial Law (*in part*).
SPARROW, JOHN. Forster, Ed. Morgan; Housman, Alfred Edward.
SPEARMAN, CHARLES E., PH.D.
Abilities, General and Special.
SPECIAEL, HENRI.
Société Internationale d'Energie Hydroélectrique.
SPENCE, HOWARD, M.I.CHEM.E.
Alum; Walnut.
SPENCER, D. A., B.S. Sheep (*in part*).
SPENCER, LEONARD JAMES, M.A., Sc.D., F.G.S., F.C.S., F.R.S. Crystallography; Mineralogy and articles on many mineral forms.
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Diesel Engine (*in part*); Gyro-Compass; Gyroscope, etc.
SPERRY, HENRY M. Railways (*in part*).
SPIELMAN, MARION H., F.S.A. Gilbert, Alfred; Pastel (*in part*); Repoussé; Roubiliac; Shakespeare (*in part*).
SPILLMAN, W. J., M.S., Sc.D. Farm Management (*in part*).
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SPRAGUE, OLIVER M. W., A.M., PH.D.
Banks, History of (*in part*).
SPRARAGEN, WILLIAM. Welding.
SPRENG, SAMUEL P., D.D. Evangelical Church.
SPROUL, ROBERT G., B.S., LL.D. California, University of.
SPROULE, WILLIAM. Southern Pacific Company.
SPRY, WILLIAM. Homestead and Exemption Laws.
SQUIRE, JOHN COLLINGS, M.A. English Literature (*in part*).
SQUIRE, WILLIAM BARCLAY, M.A., F.S.A., F.R.G.S.
Byrd, William.
STAMP, SIR JOSIAH (CHARLES), G.B.E., D.Sc., LL.D., F.B.A.
Capital Levy; Income: Economic Definition; Income Tax: Economic Aspect; National Savings (*in part*); Reparations and the Dawes Plan (*in part*); Taxation; Wealth, National; etc.
STAMP, LAURENCE DUDLEY, B.A., D.Sc., A.K.C., F.G.S., M.I.P.T.
Arakan; Bhamo; Eocene; Flysch; Irrawaddy; Miocene; Oligocene; Pliocene; Quaternary; Tertiary.
STANCIOFF, ANNA. Ferdinand, King of Bulgaria.
STANIAR, WILLIAM.
Belting (*in part*); Power Transmission (*in part*).
STANISLAVSKY, CONSTANTINE. Theatre (*in part*).
STANLEY, R. E. Agricultural Wages (*in part*).
STAPLES, S. F. Docks (*in part*).
STARCH, DANIEL, M.A., PH.D. Advertising (*in part*).
STARRETT, W. A., B.S. in C.E. Structural Engineering (*in part*).
STEBBING, REV. GEORGE ALEXANDER, C.SS.R.
Roman Catholic Church (*in part*).
STEBBING, MISS L. S., M.A. Logistic.
STEED, H. WICKHAM. Fabrizi, Nicola; Propaganda.
STEFANSSON, VILHJALMUR, A.M., LL.D.
Arctic Regions (*in part*); Eskimos.
STEIN, CLARENCE S. Social Architecture (*in part*).
STEIN, LEONARD. Palestine (*part*); Syria (*part*); Zionism (*part*).
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Carquinez Strait Bridge; Florianopolis Suspension Bridge.
STENNING, JOHN FREDERICK, M.A., C.B., C.B.E.
Bible (*in part*); Exodus, Book of; Leviticus; Targum.
STENTON, DORIS MARY, B.A. Frankpledge; Justiciar; Magna Carta; Pipe Rolls; Purveyance; Tallage.
STENTON, F. M. English History (*in part*); Palestine (*in part*); etc.; Danelagh (*in part*); Dark Ages; etc.; Normans (*in part*); etc.
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Browning, Robert; Carlyle (*in part*).
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Mazarin, Jules (*in part*); Mirabeau.
STEPHENSON, LIEUTENANT-COLONEL JOHN, C.I.E., B.Sc., M.B., F.R.C.S., F.R.S.E. Annelida (*in part*).
STEPHENSON, NATHANIEL W., A.B., LITT.D., LL.D.
Lincoln, Abraham.
STEPHENSON, T. A., D.Sc. Anthozoa; Coelenterata; Ctenophora; Graptolites; Hydrozoa; Scyphozoa.
STEPHENSON, WILFRED TETLEY. British Empire (*in part*).
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Reformed Church in the United States.
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STEVENSON, MISS E., B.A. Nursery Schools (*in part*).
STEVENSON, ROBERT LOUIS. Béranger, Pierre Jean (*in part*).
STEWART, ETHELBERT.
Minimum Wage (*in part*); Trade Board (*in part*).
STILL, GEORGE FREDERIC, M.A., M.D., HON.LL.D., F.R.C.P.
Children, Diseases of; Children's Diet.
STILLMAN, PAUL R., D.D.S., F.A.C.D. Pyorrhoea (*in part*).
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STODDART, ALEXANDER. Poster (*in part*).
STOESSEL, ALBERT, M.A. Choral Singing (*in part*).
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STONE, HERBERT L.
Bermuda Rig; House Boat; Yachting (*in part*).
STONE, PAUL H. Drawing, Anatomical (*in part*).
STONER, EDMUND CLIFTON, PH.D. Magnetism; Permeameter.
STOPFORD, R. J. Inter-Allied Debts.
STOREY, W. B., PH.D., LL.D.
Atchison, Topeka and Santa Fe Railway.
STORMONT, MAJOR W. Lloyd Triestino Line; Sitmar Line; Societa Triestina de Navigazione Cosulich.
STORR, FRANCIS. Duel (*in part*); Games, Classical.
STORRS, SIR RONALD, C.M.G., C.B.E. Palestine (*in part*).
STORY, ISABELLE F. National Parks and Monuments (*in part*).
STOTT, VERNEY, B.A., F.INST.P. Density; Hydrometer.
STOUT, GEORGE FREDERICK, M.A., LL.D., F.B.A.
Psychology (*in part*).
STRACHEY, MRS. RAY. Women's Suffrage (*in part*).

STRAHAN, JAMES ANDREW, LL.D. Executors and Administrators (*in part*); Intestacy (*in part*); Will or Testament (*in part*).
STRANGE, LIEUTENANT-COLONEL EDWARD FAIRBROTHER, C.B.E. Della Quercia; Enamel (*in part*); Hiroshige; Hokusai; Korin, Ogata; Kyosai; Lacquer (*in part*); etc.
STRATTON, F. J. M., D.S.O., M.A. Nova.
STRATTON, SAMUEL WESLEY, D.Sc., LL.D., PH.D. Massachusetts Institute of Technology, The.
STRAWN, SILAS HARDY. American Bar Association, The.
STREAT, E. RAYMOND. Cotton and the Cotton Industry (*in part*).
STREETER, EDWARD. Bankers' Trust Company.
STRICKLAND, LORD, G.C.M.G. Malta (*in part*).
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SUMNER, PERCY H. Balloons in War.
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SUTTON, WILLIS A., PH.D., LL.B. Dentistry (*in part*).
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SWEET, WILLIAM WARREN, A.B., B.D., PH.D. Revivals, Religious.
SWIFT, LOUIS F. Swift and Company.
SWINBURNE, ALGERNON CHARLES. Beaumont and Fletcher (*in part*); Marlow, Christopher (*in part*); Mary Queen of Scots (*in part*).
SWINBURNE, H. LAWRENCE. Flag.
SWIRE, JOSEPH, F.R.G.S. Albania (*in part*); Machado, Bernadino; Makonnen, Ras Tafari; William; Zogu.
SWOPE, GERARD, D.Sc., LL.D. General Electric Company (*part*).
SYKES, BRIGADIER-GENERAL SIR PERCY, K.C.I.E., C.B., C.M.G. Baluchistan (*in part*); Persia (*in part*); Persia, Campaigns in.
SYKES, WILLIAM STANLEY, M.A., M.D., B.CH., M.R.C.S., L.R.C.P., D.P.H. Acetylene in Medicine.
SYMONDS, JOHN ADDINGTON, LL.D. Italy (*in part*); Renaissance (*in part*); Machiavelli; Petrarch (*in part*); Politian (*in part*); etc.
SYMONS, ARTHUR. Goncourt, de; Mallarmé; Verlaine, Paul; etc.
SZEKFU, JULIUS. Hungary (*in part*).
SZILAGYI, L. F. Siemens.
TABOR, RICHARD JOHN, B.Sc., F.L.S. Fungi; Plants (*in part*).
TAFT, LORADO, LITT.D. Saint-Gaudens, Augustus.
TAIT, PETER GUTHRIE, LL.D. Maxwell, James Clerk.
TAIT, THOMAS SMITH, F.R.I.B.A. Russian Architecture (*in part*).
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TALMAN, CHARLES FITZHUGH. United States of America (*part*).
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TAYLOR, CLAUDE. British Industries Fair.
TAYLOR, MRS. D. D. COTTINGTON. Carving (*in part*); Housekeeping (*in part*); Menus; etc.
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TEMPLER, CAPTAIN G. G. Ordnance (*in part*).
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THIBAUDET, ALBERT. Bainville, Jacques; Barrès; Bergson, Henri; Proust, Marcel.
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THOMPSON, WALLACE, B.Sc., LITT.D. Caribbean Sea; Central America (*in part*); Costa Rica, Guatemala, Nicaragua; etc.; Blaine, James G.; Bolivar; etc.; Pan-American Conferences.
THOMPSON, WARREN S., A.M., PH.D. North America (*in part*); Rural Depopulation (*in part*).
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THOMSON, SIR BASIL, K.C.B. Crime; Frauds (*in part*).
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THOMSON, T. N. Sanitation of Buildings (*in part*).

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Intelligence Tests.
THORNTON, H. G. Soil (*in part*).
THORNTON, SIR HENRY WORTH, K.B.E., M.INST.C.E.
Canadian National Railway Company.
THORPE, JOCELYN FIELD, C.B.E., D.Sc., F.I.C., F.C.S., F.R.S.
Colour (*in part*).
THORSEN, ALFRED T. Life-Boat and Life-Saving Service (*in part*).
THUERK, H. C., M.S.E.E. Electrification of Industry (*in part*).
THUM, E. E., E.M. Iron and Steel; Nickel Steel; Nitrogen Hardening; Presses and Presswork; Tool Steel; etc.
THURSFIELD, JAMES RICHARD, M.A.
Parnell, Charles Stewart (*in part*).
TIDY, HENRY LETHEBY, M.A., F.R.C.P., M.D.
Encephalitis Lethargica.
TIELE, P. A. Plantin, Christophe.
TIGERT, JAMES, ED.D., LL.D., L.H.D., D.C.L.
Education, United States Bureau of; Mann, Horace.
TILDESLEY, M. L. Dead, Disposal of.
TILL, T. MARSTON. Brush (*in part*).
TILLEY, CECIL EDGAR, B.Sc., PH.D., F.G.S.
Petrology and many articles on rock-forming minerals.
TILLOTSON, JR., EDWIN WARD, B.A., PH.D.
Physical Resources (*in part*).
TILLYARD, H. J. W., M.A., D.LITT. Byzantine Music.
TIPPING, AVRAY, M.A., F.S.A. Interior Decoration (*in part*).
TIRTOFF, ROMAIN DE (ERTE). Dress (*in part*).
TIZARD, HENRY THOMAS, C.B., A.F.C., F.R.AE.S., F.INST.P., F.R.S. Thermochemistry.
TOBEY, J. A., M.S. Food Preservation (*in part*).
TOD, JOHN AITON, M.A., B.L. Cotton and the Cotton Industry (*in part*); Cotton Famine; Customs Union.
TOD, MARCUS NIEBUHR, M.A.
Archidamus; Cleomenes; Demaratus; Leonidas (*in part*); Lysander; Pausanias; Pylos (*in part*); Sparta.
TOLNAI, V. Hungarian Language.
TOMITA, KOJIRO. Art (*in part*); Screens (*in part*).
TOMLINSON, REGINALD R., A.R.C.A., R.B.A.
School and Curriculum (*in part*).
TONKS, HENRY. Pastel (*in part*).
TOPALIAN, SARKIS. Armenian Literature (*in part*).
TORREY, CHARLES CUTLER, PH.D., D.D. Ahasuerus; Daniel (*in part*); Esther (*in part*); Ezra and Nehemiah, Books of; etc.
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Edward I.; Edward II.; Edward, The Black Prince; etc.
TOVEY, DONALD FRANCIS, M.A., MUS.DOC. Concerto; Contrapuntal Forms; Harmony; Music; Opera; Symphony; etc.; Beethoven; Dvorák; Mendelssohn-Bartholdy; Wagner; etc.
TOVEY, REV. DUNCAN CROOKES, M.A.
Gray, Thomas (*in part*); Thomson, James (*in part*).
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TOWNER, HORACE MANN, LL.B.
Porto Rico; San Juan; and other cities of Porto Rico.
TOWNSEND, CHARLES H., Sc.D. Aquarium (*in part*).
TOWNSHEND, BAILEY, B.S., Sc.D. Tabulating Machines.
TOY, CRAWFORD HOWELL, A.M., PH.D. Ecclesiastes (*in part*).
TOYNBEE, ARNOLD JOSEPH. Mustafa Kemal.
TRANSEHE, NICOLAS A. Tierra del Fuego.
TRAVERS, MORRIS WILLIAM, D.Sc., F.I.C., F.R.S.
Liquefaction of Gases.
TREND, J. B., M.A. Spanish Language and Literature (*in part*).
TRENT, WILLIAM PETERFIELD, LL.D., D.C.L. Lanier, Sidney.
TRITTON, A. S., M.A., D.LITT. Sabaeans.
TROLAND, GIRARD B., B.Sc.
Engineers (*in part*); Light Railways, Military (*in part*).
TROLAND, LEONARD T., B.S., A.M., PH.D.
Colour Blindness; Visual Sensation.
TROTSKY, LEV. Lenin.
TROTTER, SIR HENRY. Rumania (*in part*).
TRUBETZKOY, PRINCE N. S. Caucasian Languages.
TRUESDELL, LEON E., A.M., PH.D. Agriculture, Census of (*part*).
TRUMAN, ETHEL.
Flammarion, Nicolas Camille; Lorentz, Hendrick A.
TUKE, MARGARET JANSON, M.A. Women, Education of (*in part*).
TULIN, LEON ARTHUR, A.B., LL.B. Riot (*in part*).
TUNNEY, GENE. Boxing (*in part*).
TUNNICLIFFE, H. E., M.A. Hormones.
TUNSTALL, W. C. B., M.A. Armada (*in part*); also Dutch Wars; Grand Alliance, War of the; Navarino, Battle of; Seven Years' War; Spanish Succession, War of; etc., (*in part*).
TURING, H. D. Angling (*in part*).
TURNER, CHRISTOPHER. Rural Depopulation (*in part*).
TURNER, CUTHBERT HAMILTON, F.B.A., HON.D.LITT., LL.D.
Bible (*in part*).
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United States of America (*in part*).
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TURNER, HOWARD A., B.A. Farm Rents (*in part*).
TURNER, LAURENCE A., F.S.A., HON.A.R.I.B.A.
Wood-Carving (*in part*).
TURNER, RALPH LILLEY, M.C., M.A.
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TURRELL, WALTER JOHN, M.D., B.CH. Electrotherapy.
TUTHILL, EDWARD, M.A., PH.D. Kentucky.
TUTTLE, CHARLES H., A.B., LL.B. Insanity in Law (*in part*).
TUTTLE, WORTH, A.B. Bierce, Ambrose; Dickinson, Emily.
TWENTYMAN, A. E. Education (*in part*); Universities (*in part*); University Colleges (*in part*).
TWISS, SIR TRAVIS, Q.C. Sea Laws (*in part*).
TWYMAN, F., F.R.S. Lens.
TYLER, ROYALL. Byzantine Art (*in part*).
TYLOR, EDWARD BURNETT, D.C.L., LL.D., F.R.S.
Ordeal (*in part*).
UNDERHAY, F. G., M.A. Patents (*in part*).
UNDERHILL, EVELYN (MRS. STUART MOORE). Mysticism (*in part*).
UNDERWOOD, NORMAN. Carbon Paper.
UNTERMEYER, LOUIS. Poetry (*in part*).
UNWIN, EDWARD, A.R.I.B.A. Housing (*in part*).
UNWIN, RAYMOND, F.R.I.B.A. Housing (*in part*).
URBAN, JOSEPH. Theatre (*in part*).
URBAN, WILBUR M., A.B., PH.D. Value, Theory of.
URWICK, MAJOR L., O.B.E., M.C., M.A.
Scientific Management (*in part*).
VALLS, AURELIO. Spain, Bank of.
VAN ALSTYNE, J. H. Elevators.
VAN BRUNT, JOHN. Steam Generation (*in part*).
VANCE, LEE J., B.S. Soda Fountain.
VANDERVELDE, EMILE.
Belgium (*in part*); International, The (*in part*).
VANDEWALKER, NINA C., B.S. Kindergarten (*in part*).
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VAN DYKE, HENRY, D.D., LL.D. Emerson.
VAN DYKE, JOHN CHARLES. Inness, George.
VANES, REV. J. A. Methodism (*in part*).
VAN TYNE, CLAUDE HALSTEAD, PH.D.
American Revolution (*in part*).
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Conformal Representation.
VAN WATERS, MIRIAM. Children's Courts (*in part*).
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James (The Pretender); Wales (*in part*).
VAUGHAN, W. E., M.A., F.S.A. Oberammergau.
VEBLEN, O., A.B., PH.D. Differential Forms; Projection, in Mathematics; Projective Geometry.
VEITCH, FLETCHER P., D.Sc., M.S. Leather, Care of.
VERMEYLEN, A. Belgian Literature (*in part*).
VERNON-HARCOURT, LEVESON FRANCIS, M.A., M.INST.C.E.
River and River Engineering (*in part*).
VERNON-HARCOURT, L. W. Lord High Steward.
VIALL, ETHAN. Thermit.

VIARD, JULES. Jacquerie, The.
VILAS, C. A., A.B., LL.B. National Biscuit Company, The.
VILES, JONAS, A.M., PH.D. Missouri.
VILLARI, LUIGI. Fascism; Italian Front, in the World War; and, *in part,* Italy, Naples, Tuscany, etc.; Borgia; Cavour; Mazzini; Mussolini; Sturzo; etc.
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Campion, Thomas; Census (*in part*).
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VOIONMAA, TAPIO. Industrial Accidents (*in part*).
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VORONOFF, SERGE. Rejuvenation.
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WALKER, CAPTAIN A. H., R.N. Mines, Minelaying and Minesweeping; Paravane, The; Torpedoes; etc.
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WALKER, REV. EDWARD M., M.A., D.D., LL.D.
Greece (*in part*); Theopompus; Xenophon.
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WAUGH, WILLIAM TEMPLETON, M.A., B.D. Montcalm.
WAVELL, COLONEL ARCHIBALD PERCIVAL, C.M.G., M.C.
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Knighthood and Chivalry (*in part*); Saddlery and Harness.
WEATHERS, JOHN, F.R.H.S. Horticulture (*in part*).
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WEBER, F. W. Burnisher; Easel.
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Minorities (*in part*); Vienna, Congress of.
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Rembrandt; Velazquez (*in part*).
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Mathematics, Nature of.
WHITEHEAD, NOEL TANCRED, M.B., B.S.
Paratyphoid Fever; Typhoid Fever.
WHITEHOUSE, W. E., M.Sc. Norway (*in part*); Sweden (*in part*); Switzerland (*in part*); Zürich (Canton).
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WHITLOCK, BRAND, LL.D. Democracy.
WHITTAKER, WILLIAM GILLIES, D.MUS., F.R.C.O.
Choral Singing (*in part*).
WHITTINGHAM, WING COMMANDER HAROLD E., M.B., D.PH.
Sandfly Fever.
WHITTLE, LIEUTENANT-COLONEL H. J. Croquet (*in part*).
WHITWORTH, GEOFFREY. Little Theatre Movement (*in part*).
WHYMANT, A. NEVILLE J., PH.D., D.LITT.
Caspian Languages; Clicks; Japanese Literature; Mongolian Language and Literature; Polynesian Languages; Polynesian Literature; Siamese Language and Literature (*in part*); etc.
WHYTE, FREDERIC W. Du Maurier, George.
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Taft, William Howard.
WIDGERY, A. L. Wales (*in part*); Zürich (*in part*).
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WILDER, RAYMOND LOUIS, PH.D. Analysis Situs; Point Sets.
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Theognis of Megara.
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WOOD, W. BIRKBECK, M.A.
American Civil War; Antietam; Atlanta; Chickamauga; etc.
WOODBURY, D. O., A.B., M.S.
Electrical Power Generation (*in part*); Test Pit.
WOODCOCK, WILLIAM H., F.C.S., A.INST.STRUCT.E. Cement.
WOODHOUSE, THOMAS. Flax; Huckaback; Jute; Linen and Linen Manufacture; Manila Hemp; Sailcloth and Sailmaking (*in part*).
WOODHULL, D. E. American Bank Note Company, The.
WOODHULL, R. F. Motion Picture Theatre.
WOODIN, WILLIAM HARTMAN. American Car and Foundry Company; American Locomotive Company.
WOODRUFF, CLINTON ROGERS, A.B., PH.B., LL.B.
City Government (*in part*); Civics (*in part*).
WOODS, ARTHUR, A.B., HON.A.M., HON.LL.D.
Rockefeller Benefactions (*in part*).
WOODS, MAURICE HENRY. Birkenhead, Earl of.
WOODSON, CARTER G., A.M., PH.D. Peonage.
WOODWARD, A. F. Canning (*in part*).
WOODWARD, SIR ARTHUR SMITH, LL.D., F.R.S.
Ichthyosauria; Iguanodon.
WOODWARD, E. L., M.A. Châlons-sur-Marne (*in part*).
WOOLLEY, CLARENCE M. American Radiator Company, The.
WOOLLEY, MARY EMMA, LITT.D., L.H.D., LL.D.
Women, Education of (*in part*).
WOOSTER, W. A., PH.D. Agate; Amber; Carnelian; Chalcedony; Jade; Jasper; Onyx; Opal; etc.
WORK, HUBERT, M.D., Sc.D., LL.D.
Government Departments (*in part*).
WORK, MILTON C., A.B., LL.B. Auction Bridge.
WORNUM, RALPH NICHOLSON. Arabesque.
WORNUM, W.E., A.R.C.S., B.Sc., A.I.C. Carmine (*in part*); Paints, Chemistry of (*in part*); Varnishes, Chemistry of (*in part*).
WORRALL, LIEUTENANT-COLONEL PERCY REGINALD, D.S.O., M.C. Smoke In Warfare.
WORSFOLD, WILLIAM BASIL, M.A.
Cape Colony (*in part*); also Africa, Nigeria, Rhodesia, (*in part*).
WRIGHT, SIR ALMROTH EDWARD, K.B.E., M.D., F.R.S.
Immunity.
WRIGHT, CHARLES. Lloyd's.
WRIGHT, CHARLES THEODORE HAGBERG, LL.D. Periodical.
WRIGHT, ORVILLE, M.A., LL.D., Sc.D. Wright, Wilbur.
WRIGHT, SAMSON, M.D. Diet and Dietetics.
WRIGHT, WADE, B.Sc., M.D.
Artificial Respiration; Industrial Welfare and Medicine (*in part*).
WRIGHT, W. B. Ireland (*in part*).
WRIGHT, WILLIAM HAMMOND. Mars.
WRONG, GEORGE MACKINNON, M.A., LL.D., F.R.S.C.
Canada (*in part*); Ontario (*in part*).
WYATT, MAJOR F. J. C., O.B.E., M.C. Camouflage (*in part*).
WYLD, H. C., D.LITT. English Language.
WYNN, WING COMMANDER A. W. H. E., O.B.E.
Air Forces (*in part*).
YAMANOUCHI, SEIRYO.
First Bank of Japan; Japanese Industrial Bank; Nippon Ginko.
YATES, H. O., B.S. Chrysanthemum.
YELLIN, SAMUEL. Iron in Art (*in part*).
YEOMAN, E. W. Chemistry (*in part*).
YEWDALL, ALEXANDER. Clothing Manufacture (*in part*).
YORKE, PHILIP CHESNEY, M.A.
Clanricarde; Cromwell, Richard; Anne, Queen of England (*in part*).
YOST, FIELDING H., LL.D. Football, Rugby (*in part*).
YOUNG, ALEXANDER BELL FILSON. Dance (*in part*).
YOUNG, ALLYN, PH.D. Capital; Economics; Labour; Rent: In Economics; Supply and Demand; Utility; Value; Wages; Wealth; etc.
YOUNG, ARTHUR. Cartoon (*in part*).
YOUNG, ERNEST, B.Sc., F.R.G.S. Siam (*in part*).
YOUNG, SIR FREDERICK WILLIAM, K.B.E., M.I.MECH.E.
Salvaging.
YOUNG, JOHN W., PH.D. Geometry (*in part*).
YOUNG, MAHONRI. Sculpture Technique (*in part*).
YOUNG, OWEN D., LL.B., LL.D., D.Sc. Dawes, Charles Gates.
YOUNG, ROBERT ARTHUR, C.B.E., M.B., F.R.C.P.
Respiratory System, Diseases of (*in part*).
YOUNG, REV. WILLIAM. Presbyterianism (*in part*).
YOUNGHUSBAND, MAJOR GENERAL SIR GEORGE J., K.C.I.E., C.B., K.C.M.G., F.R.G.S. Crown Jewels (*in part*).
YULE, SIR HENRY, K.C.S.I. Kublai Khan; Lhasa (*in part*); Polo, Marco (*in part*); Ricci, Matteo (*in part*); etc.
ZALOWITZ, NATHANIEL.
Yiddish Language and Literature (*in part*).
ZANETTI, J. ENRIQUE, A.M., PH.D. Chemical Warfare (*in part*).
ZIMMER, GEORGE FREDERICK, A.M.INST.C.E.
Bunkering of Ships; Excavation (*in part*); Granaries and Grain Elevators; Locomotive Coaling (*in part*); Mechanical Handling; Monorails and Telphers; Pneumatic Conveying; etc.
ZIMMERMAN, P. W., M.S., PH.D.
Arboretum; Arboriculture (*in part*); Chestnut; Horse Chestnut.
ZIMMERN, ALFRED. League of Nations and Education.
ZOLNAI, BELA, PH.D. Hungarian Literature.
ZON, RAPHAEL, M.S.
Forests and Forestry; Physical Resources (*in part*).